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# United States Department of Agriculture,

## DIVISION OF PUBLICATIONS—CIRCULAR 19.

[Prepared in the Agricultural Education Service of the Office of Experiment Stations.]

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### PUBLICATIONS OF THE DEPARTMENT OF AGRICULTURE CLASSIFIED FOR THE USE OF TEACHERS.

#### INTRODUCTION.

A large percentage of the requests that come from teachers and others to the Department of Agriculture for its publications lack definiteness of title or carry some other indication of uncertainty as to the particular information desired. Many publications are doubtless sent out that do not meet the real requirements of those who apply for them, either because of a lack of information on the part of the applicant as to the publications available or on the part of the department as to the particular character or purpose of the information sought. This circular has been prepared with the design of assisting toward a more economical and intelligent use of the Government publications on agricultural topics by classifying them with reference to subjects commonly taught in the schools.

It is particularly desirable that teachers should be prepared to use these publications to the best advantage. While instructors in special subjects in the agricultural colleges of this country have long made extensive use of the bulletins of this department, it is believed that college teachers in general (outside the agricultural specialists) and a vastly larger number of teachers in the public schools have not fully appreciated the range of information useful in teaching and study that is embodied in these publications. With the widespread interest now awakened in agricultural education, it is expected that many teachers will rapidly become intelligently acquainted with what the department offers that is available for school work.

The publications herein classified for such use, with few exceptions, were originally designed for other purposes, and so—like all other illustrative and supplementary aids—require careful discrimination

on the teacher's part in ordering and using them. The supply of some of these publications will occasionally become exhausted temporarily or permanently. Usually, however, they are reprinted or are superseded by others better adapted to the purpose whenever it is evident that they serve a lasting interest.

Certain publications are issued annually, such as the Yearbook of the Department of Agriculture and reports of the various bureaus. Of these, only the Yearbook is of popular interest, and teachers can best procure it by application to their own Congressman or United States Senator. The various volumes thus secured should be used as a permanent part of the school library. The Yearbook is always finely illustrated, often with colored plates, and contains much material that can be used in teaching a variety of subjects. By noting in the various lists the date given for each Yearbook reprint and the number of desirable reprints in any one year, the teacher can usually determine whether it will be more satisfactory to procure a particular Yearbook or order the reprints separately. Five hundred thousand Yearbooks are printed annually, and of these, 470,000 are reserved for distribution by Members of Congress.

The second class of publications consists of other departmental reports, bureau bulletins, and technical papers. Of these, each main branch of the department has its separate series, in which the publications are numbered consecutively. These are issued only in small editions, for limited distribution, and so have not been included in the following lists.

The third class consists of Farmers' Bulletins, circulars, Yearbook reprints, and other popular papers. These are published in large editions for free general distribution, but the demand for the Farmers' Bulletins often exceeds the ability of the department to supply them in sufficient quantity for class use. In such cases teachers are referred to their Senators or Representatives in Congress, who are authorized by law to distribute four-fifths of the total number published.

There is no list of persons who receive all the publications as issued, as this would be very wasteful and unsatisfactory. Instead, a Monthly List of [department] Publications is sent regularly to all applicants, from which they can order by proper title and number any publication desired. The department also publishes for free distribution a Monthly List of State Experiment Station Publications as they are received from time to time by the Office of Experiment Stations. A teacher who is registered (on application) to receive this list may thus keep informed concerning any station publications that might be useful in school work. These publications are not distributed by this department, but may be procured from the directors of the several experiment stations.

Avoid requesting a large list of publications on different subjects at one time or of publications whose use is to be distributed over a long period of school work. For reasons already indicated it must be the policy of the department to limit the distribution of publications to actual present needs as nearly as possible, so that the funds available for purposes of publication can be made to benefit the largest possible number of real users. One of the chief purposes kept in mind in the preparation of this circular is to increase the actual value of the department publications to teachers in the schools. Teachers of correlated subjects in the same school, as physiology and domestic science, botany and agronomy, or zoology and farm animals, may economize not only in the number of bulletins used, but also in their own and their pupils' work by comparing lists before ordering publications. A limited number of bulletins carefully studied by the teacher or the class, or assigned to certain members for individual reports, are of much greater service than a hundred forgotten on the shelves at home or in the school library.

[Cir. 19]



## PUBLICATIONS ADAPTED TO TEACHING AGRICULTURE.

NOTE.—Copies of publications in this list will be sent free, on application to the Secretary of Agriculture, Washington, D. C., as long as the department supply lasts. When this supply is exhausted applicants will be referred to the Superintendent of Documents, Government Printing Office, from whom the publications can be obtained at a nominal price. In ordering publications be careful to state not only the number of the document, but the kind of publication (Farmers' Bulletin, circular, Yearbook reprint, or document), the name of the issuing bureau when indicated in the list, and the title of the publication.

### I. EDUCATIONAL.

#### 1. School Courses.

##### OFFICE OF EXPERIMENT STATIONS CIRCULARS.

- 49. Secondary Courses in Agriculture. Pp. 10.
- 60. The Teaching of Agriculture in the Rural Common Schools. Pp. 20.
- 69. A Four-years' Course in Agriculture. Pp. 36.
- 77. (Rev.). A Secondary Course in Agronomy. Pp. 44.
- 84. Education for Country Life. Pp. 40.
- 90. Normal School Instruction in Agriculture. Pp. 31.
- 91. Secondary Education in Agriculture in the United States. Pp. 11.
- 97. Institutions in the United States Giving Instruction in Agriculture. Pp. 15.
- 98. Progress in Agricultural Education Extension. Pp. 12.
- 100. A Secondary Course in Animal Production. Pp. 56.
- 106. The American System of Agricultural Education. Pp. 28, pls. 8.
- 111. Federal Legislation, Regulations, and Rulings Affecting Agricultural Colleges and Experiment Stations. Pp. 24.

##### OFFICE OF EXPERIMENT STATIONS DOCUMENTS.

- 584. The Need of Better Courses of Preparation for Work in Applied Botany. Pp. 3.
- 708. Organization and Work of Agricultural Experiment Stations in the United States. Pp. 24, pls. 5.
- 803, 930, 1218, and 1311. Progress in Agricultural Education. (Illustrated; for the years 1904, 1905, 1908, 1909, and 1910.)
- 987. Organization and Work of the Office of Experiment Stations. Pp. 29.
- 1301. Agriculture as First Year Science. Pp. 12.
- 1388. Statistics of Land-grant Colleges and Agricultural Experiment Stations, 1910. Pp. 43.

##### FARMERS' BULLETINS.

- 218. The School Garden. Pp. 40, figs. 33.
- 408. School Exercises in Plant Production. Pp. 48, figs. 39.
- 409. School Lessons on Corn. Pp. 29, figs. 12.
- 423. Forest Nurseries for Schools. Pp. 47, figs. 8.
- 428. Testing Farm Seeds in the Home and in the Rural School. Pp. 47, figs. 32.
- 468. Forestry in Nature Study. Pp. 43, figs. 13.

##### FOREST SERVICE CIRCULARS.

- 96. Arbor Day. Pp. 4.
- 130. Forestry in the Public Schools. Pp. 20.

## YEARBOOK REPRINTS.

382. The Use of Illustrative Material in Teaching Agriculture in Rural Schools. Pp. 18, pls. 3, figs. 10. (1905.)  
 445. Training Courses for Teachers of Agriculture. Pp. 14. (1907.)

## 2. School Extension Work.

## FARMERS' BULLETINS.

134. Tree Planting on Rural School Grounds. Pp. 32, figs. 17.  
 155. How Insects Affect Health in Rural Districts. Pp. 20, figs. 16.  
 157. The Propagation of Plants. Pp. 24, figs. 22.  
 185. Beautifying the Home Grounds. Pp. 24, figs. 8.  
 195. Annual Flowering Plants. Pp. 48.  
 218. The School Garden. Pp. 40, figs. 33.  
 270. Modern Conveniences for the Farm Home. Pp. 48, figs. 26.  
 385. Boys' and Girls' Agricultural Clubs. Pp. 23, figs. 11.  
 422. Demonstration Work on Southern Farms. Pp. 19, figs. 4.

## BUREAU OF ANIMAL INDUSTRY CIRCULARS.

151. Competitive Exhibitions of Milk and Cream. Pp. 36.

## BUREAU OF PLANT INDUSTRY.

- Circ. 21. Farmers' Cooperative Demonstration Work in Relation to Rural Improvement. Pp. 20.  
 Doc. 644. Boys' Demonstration Work: The Corn Clubs. Pp. 7.  
 Doc. 647. Results of Boys' Demonstration Work in Corn Clubs in 1910. Pp. 7, figs. 3.

## BUREAU OF BIOLOGICAL SURVEY CIRCULARS.

17. Bird Day in the Schools. Pp. 4.  
 78. Seed-eating Mammals in Relation to Reforestation. Pp. 5, figs. 3.

## WEATHER BUREAU.

- Leaflet. Wind-barometer Table. Pp. 2.  
 Circular. Explanation of the Weather Map. Pp. 4, pl. 1.

## OFFICE OF THE SECRETARY CIRCULAR.

24. The Man Who Works with His Hands. Pp. 14.

## OFFICE OF EXPERIMENT STATIONS.

- Circ. 79. Form of Organization for Movable Schools of Agriculture. Pp. 8.  
 85. Farmers' Institutes for Women. Pp. 16.  
 99. Farmers' Institutes for Young People. Pp. 40.  
 109. Agricultural Fair Associations and Their Utilization in Agricultural Education and Improvement. Pp. 21.  
 Doc. 1011. Form of Organization for Farmers' Institutes. Pp. 17.  
 1390. The Farmers' Institutes in the United States, 1910. Pp. 37.

## YEARBOOK REPRINTS.

- 283, 330, 399, 450, 521, and 549. Promising New Fruits. (Illustrated with colored plates, for years 1902, 1903, 1905, 1907, 1908, 1909, and 1910.)  
 284. Plants as a Factor in Home Adornment. Pp. 18, pls. 3, figs. 3. (1902.)  
 [Cir. 19]

443. Does it Pay the Farmer to Protect Birds? Pp. 14, pls. 4. (1907.)  
 457. Hygienic Water Supplies for Farms. Pp. 10, pl. 1, figs. 4. (1907.)  
 501. The Farmers' Cooperative Demonstration Work. Pp. 8, pls. 4. (1909.)  
 518. Comforts and Conveniences in Farmers' Homes. Pp. 11, figs. 6. (1909.)  
 522. How Farmers May Utilize the Special Warnings of the Weather Bureau. Pp. 11. (1909.)  
 527. Community Work in the Rural High School. Pp. 16, pls. 4. (1910.)

## II. PLANT PRODUCTION.

### 1. Agronomy.

(Including Soils, Fertilizers, Field Crops, and Crop Pests.)

#### FARMERS' BULLETINS.<sup>1</sup>

27. Flax for Seed and Fiber. Pp. 16.  
 35. Potato Culture. Pp. 24, figs. 2.  
 48. The Manuring of Cotton. Pp. 24. (South.)  
 52. (Rev.). The Sugar Beet. Pp. 48, figs. 24.  
 81. Corn Culture in the South. Pp. 24.  
 88. Alkali Lands. Pp. 23, fig. 1.  
 110. Rice Culture in the United States. Pp. 28.  
 132. Insect Enemies of Growing Wheat. Pp. 40, figs. 25.  
 139. Emmer: A Grain for Semiarid Regions. Pp. 16, figs. 3.  
 164. Rape as a Forage Crop. Pp. 16, fig. 1.  
 167. Cassava. Pp. 32, figs. 11.  
 192. Barnyard Manure. Pp. 32, figs. 4.  
 209. Controlling the Boll Weevil in Cotton Seed and at Ginneries. Pp. 32, fig. 1. (South.)  
 211. The Use of Paris Green in Controlling the Cotton-boll Weevil. Pp. 22. (South.)  
 217. Essential Steps in Securing an Early Crop of Cotton. Pp. 16. (South.)  
 224. Canadian Field Peas. Pp. 16, figs. 4.  
 229. The Production of Good Seed Corn. Pp. 23, figs. 10.  
 245. The Renovation of Worn-out Soils. Pp. 16.  
 250. The Prevention of Stinking Smut of Wheat and Loose Smut of Oats. Pp. 16, figs. 7.  
 253. The Germination of Seed Corn. Pp. 16, figs. 4.  
 257. Soil Fertility. Pp. 40, figs. 2.  
 266. Management of Soils to Conserve Moisture. Pp. 30, figs. 7.  
 271. Forage-crop Practices in Western Oregon and Western Washington. Pp. 39, figs. 4.  
 274. Flax Culture. Pp. 36, figs. 11. (Northwest.)  
 279. A Method of Eradicating Johnson Grass. Pp. 16, figs. 8.  
 285. The Advantage of Planting Heavy Cotton Seed. Pp. 16, figs. 6. (South.)  
 286. Comparative Value of Whole Cotton Seed and Cottonseed Meal in Fertilizing Cotton. Pp. 14, figs. 2. (South.)  
 289. Beans. Pp. 28, figs. 12. (North.)  
 294. Farm Practice in the Columbia Basin Uplands. Pp. 30, figs. 9. (Northwest.)  
 299. Diversified Farming Under the Plantation System. Pp. 14. (South.)  
 300. Some Important Grasses and Forage Plants for the Gulf Coast Region. Pp. 15, figs. 5.

<sup>1</sup> See also many bulletins in the list under Experiment Station Work, p. 22.



302. Sea Island Cotton: Its Culture, Improvement, and Diseases. Pp. 48, figs. 13.  
(Southeast.)
304. Growing and Curing Hops. Pp. 39, figs. 20.
306. Dodder in Relation to Farm Seeds. Pp. 27, figs. 10.
310. A Successful Alabama Diversification Farm. Pp. 24, figs. 4.
312. A Successful Southern Hay Farm. Pp. 15.
313. Harvesting and Storing Corn. Pp. 29, figs. 17.
314. A Method of Breeding Early Cotton to Escape Boll-weevil Damage. Pp. 28.  
(South.)
318. Cowpeas. Pp. 28, figs. 8. (South.)
322. Milo as a Dry-land Crop. Pp. 23, figs. 9. (West.)
323. Clover Farming on the Sandy Jack-pine Lands of the North. Pp. 24, fig. 1.
324. Sweet Potatoes. Pp. 39, figs. 24.
331. Forage Crops for Hogs in Kansas and Oklahoma. Pp. 24.
339. Alfalfa. Pp. 48, figs. 14.
343. The Cultivation of Tobacco in Kentucky and Tennessee. Pp. 28, figs. 13.
344. The Boll-weevil Problem, with Special Reference to Means of Reducing Damage.  
Pp. 46, figs. 9.
362. Conditions Affecting the Value of Market Hay. Pp. 29, figs. 7.
372. Soy Beans. Pp. 26, figs. 6.
373. Irrigation of Alfalfa. Pp. 48, figs. 17.
382. The Adulteration of Forage-plant Seeds. Pp. 23, figs. 19.
383. How to Destroy English Sparrows. Pp. 11, figs. 4.
386. Potato Culture on Irrigated Farms of the West. Pp. 15, figs. 3.
398. Farm Practices in the Use of Commercial Fertilizers in the South Atlantic States.  
Pp. 24, figs. 2.
399. The Irrigation of Grain. Pp. 23, figs. 7.
400. A More Profitable Corn-planting Method. Pp. 14, figs. 5.
402. Canada Blue Grass: Its Culture and Uses. Pp. 20, figs. 7.
406. Soil Conservation. Pp. 15.
410. Potato Culls as a Source of Industrial Alcohol. Pp. 40, figs. 10.
414. Corn Cultivation. Pp. 32, figs. 25.
415. Seed Corn. Pp. 12, figs. 23.
417. Rice Culture. Pp. 30.
420. Oats: Distribution and Uses. Pp. 24, figs. 4.
421. Control of Blowing Soils. Pp. 23, figs. 10.
424. Oats: Growing the Crop. Pp. 44, figs. 13.
427. Barley Culture in the Southern States. Pp. 16, figs. 6.
428. Testing Farm Seeds in the Home and in the Rural School. Pp. 47, figs. 32.
431. The Peanuts. Pp. 38, figs. 20.
436. Winter Oats for the South. Pp. 32, figs. 9.
441. Lespedeza, or Japan Clover. Pp. 19, figs. 6.
443. Barley: Growing the Crop. Pp. 48, figs. 17.
448. Better Grain-sorghum Crops. Pp. 36, figs. 13.
455. Red Clover. Pp. 48, figs. 25.
458. The Best Two Sweet Sorghums for Forage. Pp. 23, figs. 7.
462. The Utilization of Logged-off Land for Pastures in Western Oregon and Western  
Washington. Pp. 20, figs. 5.
464. The Eradication of Quack Grass. Pp. 11, figs. 6.

## BUREAU OF PLANT INDUSTRY.

- Circ. 5. Barley Culture in the Northern Great Plains. Pp. 12.  
8 (Rev.). The Smuts of Sorghum. Pp. 8.

- Circ. 30. Improvement of the Oat Crop. Pp. 10.  
 50. Three Much Misrepresented Sorghums. Pp. 14, figs. 2.  
 52. Wart Disease of the Potato. Pp. 11, pls. 2.  
 57. The Cultivation of Hemp in the United States. Pp. 7, fig. 1.  
 61. Dry-land Grains in the Great Basin. Pp. 39, pls. 2.  
 62. The Separation of Seed Barley by the Specific Gravity Method. Pp. 6, fig. 1.  
 63. Methods of Legume Inoculation. Pp. 5.  
 66. Cotton Selection on the Farm by the Characters of the Stalks, Leaves, and Bolls. Pp. 23.  
 73. The Distinguishing Characters of the Seeds of Quack Grass and of Certain Wheat Grasses. Pp. 9, figs. 7.  
 74. The Sulphur Bleaching of Commercial Oats and Barley. Pp. 13, figs. 4.  
 76. The Relation of Crown-gall to Legume Inoculation. Pp. 6, figs. 4.  
 Doc. 441. Commercial Fertilizers: Their Uses and Value. Pp. —.  
 485. The Selection of Cotton and Corn Seed for Southern Farms. Pp. 3.  
 503. Fall-breaking and the Preparation of the Seed Bed. Pp. 8, figs. 2.  
 619. The Production of Cotton under Boll-weevil Conditions. Pp. 8.  
 631. Farm Fertilizers. Pp. 8.  
 633. Distribution of Cotton Seed in 1911. Pp. 13.

#### BUREAU OF ENTOMOLOGY CIRCULARS.

- 4 (2. Ser.). The Army Worm. Pp. 5, figs. 3.  
 59. The Corn Root-worms. Pp. 8, figs. 3.  
 66 (Rev.). The Joint-worm (affecting grain crops). Pp. 7, figs. 6.  
 67. Clover Root-borer. Pp. 5.  
 69. Some Insects Affecting the Production of Red Clover Seed. Pp. 9, figs. 8. (North.)  
 70. The Hessian Fly. Pp. 16, figs. 16.  
 87. The Colorado Potato Beetle. Pp. 15, figs. 6.  
 95. The Most Important Step in the Control of the Boll Weevil. Pp. 8. (South.)  
 113. The Chinch Bug. Pp. 27, figs. 8.  
 116. The Larger Cornstalk-borer. Pp. 8, figs. 4.  
 118. A Predaceous Mite Proves Noxious to Man. Pp. 24, figs. 13.  
 119. The Clover Root-borer. Pp. 5, figs. 4.  
 123. Methods of Controlling Tobacco Insects. Pp. 17, figs. 11.  
 133. The Alfalfa Caterpillar. Pp. 14, figs. 8.  
 137. The Alfalfa Weevil. Pp. 9, figs. 10.

#### BUREAU OF SOILS CIRCULARS.<sup>1</sup>

13. The Work of the Bureau of Soils. Pp. 13.  
 18. The Wire-basket Method for Determining the Manurial Requirements of Soils. Pp. 6, figs. 2.  
 22. Soils of the Eastern United States and Their Use—I. The Norfolk Fine Sandy Loam. Pp. 16.  
 23. Soils of the Eastern United States and Their Use—II. The Norfolk Fine Sand. Pp. 16.

<sup>1</sup> County soil survey advance sheets may be had by a teacher teaching agriculture in a county in which a soil survey has been made.

24. Soils of the Eastern United States and Their Use—III. The Portsmouth Sandy Loam. Pp. 12.
25. Soils of the Eastern United States and Their Use—IV. The Sassafras Silt Loam. Pp. 14.
27. Soils of the Eastern United States and Their Use—V. The Cecil Sandy Loam. Pp. 19.
28. Soils of the Eastern United States and Their Use—VI. The Cecil Clay. Pp. 16.
29. Soils of the Eastern United States and Their Use—VII. The Hagerstown Loam. Pp. 18.
30. Soils of the Eastern United States and Their Use—VIII. The Clarksville Silt Loam. Pp. 15.
31. Soils of the Eastern United States and Their Use—IX. The Miami Clay Loam. Pp. 17.
32. Soils of the Eastern United States and Their Use—X. The Marshall Silt Loam. Pp. 18.
33. Soils of the Eastern United States and Their Use—XI. The Knox Silt Loam. Pp. 17.
34. Soils of the Eastern United States and Their Use—XII. The Carrington Loam. Pp. 15.
35. Soils of the Eastern United States and Their Use—XIII. The Memphis Silt Loam. Pp. 19.
36. Soils of the Eastern United States and Their Use—XIV. The Fargo Clay Loam. Pp. 15.
37. Soils of the Eastern United States and Their Use—XV. The Clyde Loam. Pp. 16.
38. Soils of the Eastern United States and Their Use—XVI. The Dekalb Silt Loam. Pp. 17.
39. Soils of the Eastern United States and Their Use—XVII. The Porters Loam and Porters Black Loam. Pp. 19.
40. Soils of the Eastern United States and Their Use—XVIII. The Wabash Silt Loam. Pp. 15.
41. Soils of the Eastern United States and Their Use—XIX. The Wabash Clay. Pp. 16.
42. Soils of the Eastern United States and Their Use—XX. The Trinity Clay. Pp. 13.
44. Soils of the Eastern United States and Their Use—XXI. The Norfolk Sand. Pp. 18.
45. Soils of the Eastern United States and Their Use—XXII. The Norfolk Sandy Loam. Pp. 14.
46. Soils of the Eastern United States and Their Use—XXIII. The Orangeburg Fine Sandy Loam. Pp. 20.
47. Soils of the Eastern United States and Their Use—XXIV. The Orangeburg Sandy Loam. Pp. 13.
48. Soils of the Eastern United States and Their Use—XXV. The Orangeburg Fine Sand. Pp. 14.

BUREAU OF BIOLOGICAL SURVEY CIRCULAR.

76. The California Ground Squirrel. Pp. 15, figs. 4.

OFFICE OF THE SECRETARY CIRCULAR.

31. The Adulteration and Misbranding of the Seeds of Alfalfa, Red Clover, Orchard Grass, and Kentucky Bluegrass. Pp. 4.



## OFFICE OF EXPERIMENT STATIONS.

Circ. 34 (Rev.). Rules and Apparatus for Seed Testing. Pp. 24, figs. 11.

Doc. 687. Utility of Soil Surveys in the West. Pp. 3.

<sup>1</sup> Farmers' Institute Lecture No. 2. Potato Diseases and Their Treatment. (Syllabus illustrated with 47 lantern slides.) Pp. 30.

3. Acid Soils. (Syllabus illustrated with 53 lantern slides.) Pp. 28.

6. Essentials of Successful Field Experimentation. (Syllabus illustrated with 32 lantern slides.) Pp. 24.

9. Tobacco Growing. (Syllabus illustrated with 46 lantern slides.) Pp. 16.

11. Wheat Culture. (Syllabus illustrated with 45 lantern slides.) Pp. 22.

## YEARBOOK REPRINTS.

124. Hybrids and Their Utilization in Plant Breeding. Pp. 38, pls. 4, figs. 12. (1897.)

169. Soil Investigations in the United States. Pp. 12. (1899.)

195. Successful Wheat Growing in Semiarid Districts. Pp. 14, pls. 4. (1900.)

206. Some Poisonous Plants of the Northern Stock Ranges. Pp. 20, pls. 3, figs. 4. (1900.)

319. The Industry in Oil Seeds. Pp. 16. (1903.)

320. The Relation of Sugar Beets to General Farming. Pp. 12, pls. 3.

392. Illustrations of the Influence of Experiment Station Work on Culture of Field Crops. Pp. 16, fig. 1. (1905.)

393. The Relation of Irrigation to Dry Farming. Pp. 16, pls. 2, figs. 10. (1905.)

422. Methods of Reducing the Cost of Producing Beet Sugar. Pp. 14, pls. 2, figs. 2. (1906.)

425. Some Recent Studies of the Mexican Cotton-boll Weevil. Pp. 12, pl. 1, fig. 1. (1906.)

446. The Art of Seed Selection and Breeding. Pp. 16, pls. 5. (1907.)

456. Cropping System for Stock Farms. Pp. 14. (1907.)

461. Dry-land Farming in the Great Plains Area. Pp. 18, figs. 2. (1907.)

488. Some Things that the Grower of Cereal and Forage Crops Should Know About Insects. Pp. 22, pls. 3, figs. 17. (1908.)

493. By-products of the Sugar Beet and Their Uses. Pp. 10. (1908.)

494. The Development of Farm Crops Resistant to Disease. Pp. 12, pls. 2. (1908.)

495. Soil Mulches for Checking Evaporation. Pp. 8, figs. 7. (1908.)

507. The Functions and Value of Soil Bacteria. Pp. 7, figs. 2. (1909.)

511. The Future Wheat Supply of the United States. Pp. 13, figs. 2. (1909.)

515. Progress in Methods of Producing Higher Yielding Strains of Corn. Pp. 11, pls. 4. (1909.)

530. Nitrogen-Gathering Plants. Pp. 8, pls. 8. (1910.)

537. Insect Enemies of Tobacco in the United States. Pp. 20, pl. 1, figs. 13. (1910.)

540. Increased Yields of Corn from Hybrid Seed. Pp. 12. (1910.)

541. The Utilization of Crop Plants in Paper Making. Pp. 16, figs. 3. (1910.)

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<sup>1</sup> Syllabi of Farmers' Institute Lectures are furnished to teachers in schools and colleges, and the lantern slides are loaned for a limited time. Express charges to be paid both ways. Address Farmers' Institute Specialist, Office of Experiment Stations, Washington, D. C.



## 2. Horticulture.

FARMERS' BULLETINS.<sup>1</sup>

- 30. Grape Diseases on the Pacific Coast. Pp. 15, figs. 3.
- 61. Asparagus Culture. Pp. 40, figs. 17.
- 99. Three Insect Enemies of Shade Trees. Pp. 30, figs. 11.
- 104 (Rev.). Notes on Frost. Pp. 32, figs. 4.
- 113 (Rev.). The Apple and How to Grow It. Pp. 32, figs. 10.
- 118. Grape Growing in the South. Pp. 32, figs. 6.
- 154. The Home Fruit Garden: Preparation and Care. Pp. 16, figs. 6.
- 156. The Home Vineyard, with Special Reference to Northern Conditions. Pp. 22, figs. 15.
- 157. The Propagation of Plants. Pp. 24, figs. 22.
- 176. Cranberry Culture. Pp. 20, figs. 12.
- 178. Insects Injurious in Cranberry Culture. Pp. 32, figs. 12.
- 181. Pruning. Pp. 39, figs. 25.
- 185. Beautifying the Home Grounds. Pp. 24, figs. 8.
- 195. Annual Flowering Plants. Pp. 48, figs. 55.
- 198. Strawberries. Pp. 24, figs. 15.
- 204. The Cultivation of Mushrooms. Pp. 24, figs. 10.
- 213. Raspberries. Pp. 38, figs. 25.
- 220. Tomatoes. Pp. 32, figs. 13.
- 231. Spraying for Cucumber and Melon Diseases. Pp. 24, figs. 8.
- 232. Okra: Its Culture and Uses. Pp. 16, figs. 8. (South.)
- 238. Citrus Fruit Growing in the Gulf States. Pp. 48, figs. 17.
- 243. Fungicides and Their Use in Preventing Diseases of Fruits. Pp. 32, figs. 17.
- 248. The Lawn. Pp. 20, figs. 5.
- 254. Cucumbers. Pp. 30, figs. 14.
- 255. The Home Vegetable Garden. Pp. 47, figs. 34.
- 282. Celery. Pp. 36, figs. 16.
- 283. Spraying for Apple Diseases and the Codling Moth in the Ozarks. Pp. 42, figs. 7.
- 284. Insect and Fungus Enemies of the Grape East of the Rocky Mountains. Pp. 48, figs. 35.
- 307. Roselle: Its Culture and Uses. Pp. 16, figs. 6.
- 324. Sweet Potatoes. Pp. 39, figs. 24.
- 354. Onion Culture. Pp. 36, figs. 20.
- 401. The Protection of Orchards in the Pacific Northwest from Spring Frosts by Means of Fires and Smudges. Pp. 24, figs. 11.
- 404. Irrigation of Orchards. Pp. 36, figs. 32.
- 407. The Potato as a Truck Crop. Pp. 24.
- 433. Cabbage. Pp. 23, figs. 11.
- 434. The Home Production of Onion Seed and Sets. Pp. 24, figs. 12.
- 440. Spraying Peaches for the Control of Brown-rot, Scab, and Curculio. Pp. 40, figs. 14.
- 453. Danger of General Spread of the Gipsy and Brown-tail Moths Through Imported Nursery Stock. Pp. 22, figs. 7.
- 460. Frames as a Factor in Truck Growing. Pp. 29, figs. 12.

## BUREAU OF BIOLOGICAL SURVEY CIRCULAR.

- 78. Seed-eating Mammals in Relation to Reforestation. Pp. 5, figs. 3.

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<sup>1</sup> See also many bulletins in the list under Experiment Station Work, p. 22.

## BUREAU OF ENTOMOLOGY CIRCULARS.

- 11 (Rev.). The Rose-chaffer. Pp. 4, fig. 1.
- 29 (Rev.). The Fruit-tree Bark-beetle. Pp. 9, figs. 5.
- 38 (2. Rev.). The Squash-vine Borer. Pp. 6, figs. 2.
- 42. How to Control the San José Scale. Pp. 6.
- 54. The Peach-tree Borer. Pp. 6, fig. 1.
- 57. The Greenhouse White Fly. Pp. 9, fig. 1.
- 60. The Imported Cabbage Worm. Pp. 8, figs. 6.
- 62 (Rev.). The Cabbage Hair-worm. Pp. 6, fig. 1.
- 64. The Cottony Maple Scale. Pp. 6, figs. 4.
- 73. The Plum Curculio. Pp. 10, figs. 5.
- 102. The Asparagus Beetles. Pp. 12, figs. 7.
- 104. The Common Red Spider. Pp. 11, figs. 4.
- 105. The Rose Slugs. Pp. 12, figs. 5.
- 114. The Euonymus Scale. Pp. 5, figs. 2.
- 120. Control of the Brown-rot and Plum Curculio on Peaches. Pp. 7.
- 121. The Oyster-shell Scale and the Scurfy Scale. Pp. 15, figs. 2.
- 124. The San José Scale and Its Control. Pp. 18, figs. 10.
- 135. The Asparagus Miner. Pp. 5, figs. 2.

## BUREAU OF PLANT INDUSTRY DOCUMENT.

- 443. Directions for Making Window Gardens.

## YEARBOOK REPRINTS.

- 47. Small-fruit Culture for Market. Pp. 12, pl. 1. (1895.)
- 50. Pear Blight: Its Cause and Prevention. Pp. 6. (1895.)
- 85. Method of Propagating the Orange and other Citrus Fruits. Pp. 18, figs. 13. (1896.)
- 197. How Birds Affect the Orchard. Pp. 14, figs. 5. (1900.)
- 261. The San José Scale: Its Native Home and Natural Enemy. Pp. 20, pls. 6, figs. 3. (1902.)
- 266. Top Working Orchard Trees. Pp. 14, pls. 4, figs. 8. (1902.)
- 283, 330, 399, 450, 496, 521, and 549. Promising New Fruits. (Illustrated with colored plates; for years 1902, 1903, 1905, 1907, 1908, 1909, and 1910.)
- 293. The Cultivation and Fertilization of Peach Orchards. Pp. 20, pls. 6. (1902.)
- 386. The Principal Insect Enemies of the Peach. Pp. 24, pls. 7, figs. 7. (1905.)
- 387. The Handling of Fruit for Transportation. Pp. 14, pls. 4. (1905.)
- 388. Meadow Mice in Relation to Agriculture and Horticulture. Pp. 14, pls. 4, fig. 1. (1905.)
- 433. Lime-sulphur Washes for the San José Scale. Pp. 18. (1906.)
- 452. The Rabbit as a Farm and Orchard Pest. Pp. 14. (1907.)
- 459. Truck Farming in the Atlantic Seacoast States. Pp. 10, pls. 3. (1907.)
- 463. Diseases of Ornamental Trees. Pp. 12, pls. 3, fig. 1. (1907.)
- 480. Information about Spraying for Orchard Insects. Pp. 22, pls. 5. (1908.)
- 504. Plants Useful to Attract Birds and Protect Fruit. Pp. 11. (1909.)
- 519. Prevention of Frost Injury to Fruit Crops. Pp. 7, pl. 1, fig. 1. (1909.)
- 546. Cooperation in the Marketing and Handling of Fruit. Pp. 20. (1910.)
- 550. The Precooling of Fruit. Pp. 16, pls. 6. (1910.)
- 551. Camphor Cultivation in the United States. Pp. 16, pls. 3. (1910.)

## 3. Forestry.

## FARMERS' BULLETINS.

- 99. Three Insect Enemies of Shade Trees. Pp. 30, figs. 11.
- 173. A Primer of Forestry. Part I: The Forest. Pp. 48, figs. 33.
- 228. Forest Planting and Farm Management. Pp. 22, figs. 3.

358. *A Primer of Forestry. Part II: Practical Forestry.* Pp. 48, figs. 25. (See also Bulletin 276 in the list under Experiment Station Work, p. 23.)
423. *Forest Nurseries for Schools.* Pp. 24, figs. 8.
468. *Forestry in Nature Study.* Pp. 43, figs. 13.

## BUREAU OF BIOLOGICAL SURVEY CIRCULAR.

78. *Seed-eating Mammals in Relation to Reforestation.* Pp. 5, figs. 3.

FOREST SERVICE CIRCULARS.<sup>1</sup>

25. *Forestry and the Lumber Supply.* Pp. 14.
55. *How to Pack and Ship Young Forest Trees.* Pp. 2, fig. 1.
- 61 (Rev.) *How to Transplant Forest Trees.* Pp. 4.
69. *Forest Planting Leaflet.* Pp. 4.
118. *Management of Second Growth in the Southern Appalachians.* Pp. 22.
130. *Forestry in the Public Schools.* Pp. 20.
140. *What Forestry Has Done.* Pp. 32.
157. *A Primer of Conservation.* Pp. 24.
165. *Practical Assistance to Owners of Forest Lands and to Tree Planters.* Pp. 7.
166. *The Timber Supply of the United States.* Pp. 24, figs. 6.
167. *The Status of Forestry.* Pp. 29.
171. *The Forests of the United States: Their Use.* Pp. 25.
180. *Lumber Saved by Using Odd Lengths.* Pp. 5.

## BUREAU OF ENTOMOLOGY CIRCULARS.

64. *The Cottony Maple Scale.* Pp. 6, figs. 4.
99. *The Nut Weevils.* Pp. 15, figs. 14.
125. *Insects which Kill Forest Trees: Character and Extent of Their Depredations and Methods of Control.* Pp. 9.
130. *The Oak Pruner.* Pp. 7, fig. 1.

## YEARBOOK REPRINTS.

112. *Trees of the United States Important in Forestry.* Pp. 26. (1897.)
268. *Some of the Principal Insect Enemies of Coniferous Forests in the United States.* Pp. 18, pls. 2, figs. 10. (1902.)
270. *Practicability of Forest Planting in the United States.* Pp. 12, pls. 4. (1902.)
274. *Influence of Forestry upon the Lumber Industry.* Pp. 3, pls. 3. (1902.)
327. *Insect Injuries to Hardwood Forest Trees.* Pp. 16, figs. 17. (1903.)
329. *The Relation of Forests to Stream Flow.* Pp. 10. (1903.)
355. *Insect Injuries to Forest Products.* Pp. 18, figs. 14. (1904.)
376. *How to Grow Young Trees for Forest Planting.* Pp. 10, pl. 1, fig. 1. (1905.)
381. *Insect Enemies of Forest Reproduction.* Pp. 8, figs. 9. (1905.)
434. *National Forests and the Lumber Supply.* Pp. 6. (1906.)
442. *Notable Depredations by Forest Insects.* Pp. 16. (1907.)
463. *Diseases of Ornamental Trees.* Pp. 12, Pls. 3, fig. 1. (1907.)
466. *Cutting Timber on the National Forests and Providing for a Future Supply.* Pp. 12, pls. 3. (1907.)
470. *Progress in Forestry in 1907.* Pp. 12, pls. 2. (1907.)
506. *Pocket Gophers as Enemies of Trees.* Pp. 9, pls. 2, fig. 1. (1909.)
523. *Injuries to Forest Trees by Flat-headed Borers.* Pp. 6, figs. 12. (1909.)
525. *The Management of Second-growth Sprout Forests.* Pp. 16, pls. 2. (1910.)
534. *Progress in Saving Forest Waste.* Pp. 16, pls. 3. (1910.)
542. *Injuries to Forests and Forest Products by Round-headed Borers.* Pp. 20, figs. 12. (1910.)
548. *Fire Prevention and Control in the National Forests.* Pp. 16, pls. 6. (1910.)

<sup>1</sup> Circulars dealing with the more important forest trees may be had by writing the Forest Service, U. S. Department of Agriculture, Washington, D. C.



## III. ANIMAL PRODUCTION.

## 1. Farm Animals.

FARMERS' BULLETINS.<sup>1</sup>

- 22 (Rev.). The Feeding of Farm Animals. Pp. 40.
- 49. Sheep Feeding. Pp. 24.
- 71. Essentials in Beef Production. Pp. 24, figs. 17.
- 96. Raising Sheep for Mutton. Pp. 48, figs. 18.
- 137 (Rev.). The Angora Goat. Pp. 48, figs. 7.
- 152 (Rev.). Scabies of Cattle. Pp. 32, figs. 15.
- 170. Principles of Horse Feeding. Pp. 44.
- 205 (Rev.). Pig Management. Pp. 40, figs. 22.
- 206. Milk Fever and Its Treatment. Pp. 16, figs. 2.
- 258. Texas or Tick Fever and Its Prevention. Pp. 45, figs. 6. (South.)
- 346. The Computation of Rations for Farm Animals by the Use of Energy Values. Pp. 32.
- 350. The Dehorning of Cattle. Pp. 14, figs. 6.
- 351. The Tuberculin Test of Cattle for Tuberculosis. Pp. 8.
- 378. Methods of Exterminating the Texas Fever Tick. Pp. 30.
- 379. Hog Cholera. Pp. 23, figs. 3.
- 380. The Loco-weed Disease. Pp. 16.
- 411. Feeding Hogs in the South. Pp. 47, figs. 9.
- 438. Hog Houses. Pp. 25, figs. 21.
- 439. Anthrax with Special Reference to Its Suppression. Pp. 16.

## BUREAU OF ANIMAL INDUSTRY CIRCULARS.

- 23 (3. Rev.). Directions for the Use of Blackleg Vaccine. Pp. 8, figs. 3.
- 31 (3. Rev.). Blackleg: Its Nature, Cause, and Prevention. Pp. 24, fig. 1.
- 41. A Form of Hog Cholera Not Caused by the Hog-cholera Bacillus. Pp. 4.
- 63. A Review of Some Experimental Work in Pig Feeding. Pp. 49.
- 68 (Rev.). Diseases of the Stomach and Bowels of Cattle. Pp. 10.
- 78. Glanders and Farcy. Pp. 12.
- 81. The Sheep Industry of England, Scotland, Ireland, and France. Pp. 17.
- 87. Hunter-horse Production in Ireland. Pp. 37, pls. 8.
- 89. The Preparation of Emulsions of Crude Petroleum (for cattle parasites). Pp. 4.
- 94. Foot-rot of Sheep. Pp. 20, fig. 1.
- 97. How to Get Rid of Cattle Ticks. Pp. 4, fig. 1. (South.)
- 98. Some Unusual Host Relations of the Texas Fever Tick. Pp. 8.
- 102. Stomach Worms in Sheep. Pp. 7.
- 105. Baby Beef. Pp. 105, pl. 1, figs. 5.
- 113. Classification of American Carriage Horses. Pp. 4.
- 124. Suggestions for Horse and Mule Raising in the South. Pp. 15.
- 125. The Federal Meat-inspection Service. Pp. 140, pls. 15, fig. 1.
- 129. Rabies and Its Increasing Prevalence. Pp. 26, fig. 1.
- 137. The Preservation of Our Native Types of Horses. Pp. 59, pl. 1, figs. 19.
- 138. Infectious Anemia or Swamp Fever of Horses. Pp. 4.
- 141. Foot-and-mouth Disease. Pp. 8.
- 144. Tuberculosis of Hogs: Its Cause and Suppression. Pp. 32, pls. 4.

<sup>1</sup> See also Bulletins 107, 119, 144, 222, 225, 244, 251, 273, 316, 366, 381, and 451 in the list under Experiment Station Work, pp. 22-25.



- 157. The Prevention of Losses among Sheep from Stomach Worms. Pp. 10.
- 163. The Regeneration of the Morgan Horse. Pp. 14, figs. 2.
- 165. Methods for the Eradication of Gid. Pp. 29, figs. 14.
- 168. A Note on the Feeding Value of Coconut and Peanut Meals for Horses. Pp. 2.
- 174. Eradicating Cattle Ticks in California. Pp. 17.
- 175. The Control of Bovine Tuberculosis. Pp. 27.
- 178. Breeding Horses for the United States Army. Pp. 13.

## BUREAU OF PLANT INDUSTRY CIRCULARS.

- 45. The Utilization of Pea-cannery Refuse for Forage. Pp. 12, figs. 3.
- 74. The Sulphur Bleaching of Commercial Oats and Barley. Pp. 13, figs. 4.

## BUREAU OF ENTOMOLOGY CIRCULARS.

- 25 (Second Series). The Ox Warble. Pp. 10, figs. 10.
- 15. The Horn Fly. Pp. 13, figs. 6.

## OFFICE OF THE SECRETARY CIRCULAR.

- 30. Hog Raising in the South. Pp. 8, fig. 1.

## OFFICE OF EXPERIMENT STATIONS.

- Circ. 100. A Secondary Course in Animal Production. Pp. 56.
- <sup>1</sup>Farmers' Institute Lecture No. 4. Profitable Cattle Feeding. (Syllabus illustrated with 45 lantern slides.) Pp. 21.

## YEARBOOK REPRINTS.

- 15. Some Practical Suggestions for the Suppression and Prevention of Bovine Tuberculosis. Pp. 14. (1894.)
- 206. Some Poisonous Plants of the Northern Stock Ranges. Pp. 20, pls. 3, figs. 4. (1900.)
- 241. Grazing in the Forest Reserves. Pp. 16, pls. 8. (1901.)
- 456. Cropping System for Stock Farms. Pp. 14. (1907.)
- 484. Recent Work of the Bureau of Animal Industry Concerning the Cause and Prevention of Hog Cholera. Pp. 12. (1908.)
- 531. Some of the More Important Ticks of the United States. Pp. 16, pls. 2. (1910.)

## 2. Poultry.

FARMERS' BULLETINS.<sup>2</sup>

- 51 (Rev.). Standard Varieties of Chickens. Pp. 48, figs. 42.
- 64 (Rev.). Ducks and Geese. Pp. 55, figs. 37.
- 177 (Rev.). Squab Raising. Pp. 32, figs. 11.
- 200. Turkeys. Pp. 40, figs. 12.
- 234. The Guinea Fowl. Pp. 24, figs. 3.
- 236. Incubation and Incubators. Pp. 32, figs. 11.
- 287. Poultry Management. Pp. 48, figs. 14.
- 355. A Successful Poultry and Dairy Farm. Pp. 40, figs. 7.
- 357. Methods of Poultry Management at the Maine Agricultural Experiment Station. Pp. 39, figs. 10.
- 445. Marketing Eggs through the Creamery. Pp. 12.

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<sup>1</sup> See footnote, p. 10.

<sup>2</sup> See also many of the bulletins in the list under Experiment Station Work, p. 22.

## BUREAU OF ANIMAL INDUSTRY CIRCULARS.

64. A New Nematode Parasite in the Crop of Chickens. Pp. 3, figs. 2.  
 128. White Diarrhea of Chicks With Notes on Coccidiosis in Birds. Pp. 7.

## BUREAU OF ENTOMOLOGY CIRCULAR.

92. Mites and Lice on Poultry. Pp. 8, figs. 6.

## BUREAU OF CHEMISTRY CIRCULAR.

61. How to Kill and Bleed Market Poultry. Pp. 15, figs. 5.

## OFFICE OF EXPERIMENT STATIONS CIRCULAR.

100. A Secondary Course in Animal Production. Pp. 56.

## YEARBOOK REPRINTS.

468. Changes Taking Place in Chickens in Cold Storage. Pp. 9, pls. 7. (1907.)  
 552. The Effect of the Present Method of Handling Eggs on the Industry and the Product. Pp. 20, pl. 1. (1910.)

## IV. AGRICULTURAL TECHNOLOGY.

## 1. Dairying.

## FARMERS' BULLETINS.

- 55 (Rev.). The Dairy Herd. Pp. 30.  
 106. Breeds of Dairy Cattle. Pp. 48, figs. 21.  
 166. Cheese Making on the Farm. Pp. 16, figs. 3.  
 201. The Cream Separator on Western Farms. Pp. 23.  
 280. A Profitable Tenant Dairy Farm. Pp. 16, figs. 3.  
 337. Cropping Systems for New England Dairy Farms. Pp. 24, figs. 2.  
 349. The Dairy Industry in the South. Pp. 37, figs. 10.  
 355. A Successful Poultry and Dairy Farm. Pp. 40, figs. 7.  
 413. The Care of Milk and Its Use in the Home. Pp. 20.  
 445. Marketing Eggs Through the Creamery. Pp. 12.

## BUREAU OF ANIMAL INDUSTRY CIRCULARS.

118. The Unsuspected but Dangerously Tuberculous Cow. Pp. 19, figs. 7.  
 126. A Simple Method of Keeping Creamery Records. Pp. 12.  
 130. Paraffining Butter Tubs. Pp. 6, fig. 1.  
 142. Some Important Factors in the Production of Sanitary Milk. Pp. 18, figs. 12.  
 143. Milk and Its Products as Carriers of Tuberculosis Infection. Pp. 7.  
 153. The Dissemination of Disease by Dairy Products. Pp. 57, figs. 11.  
 158. Improved Methods for the Production of Market Milk by Ordinary Dairies. Pp. 12, figs. 11.  
 161. Whey Butter. Pp. 7.  
 166. The Digestibility of Cheese. Pp. 22.  
 170. The Extra Cost of Producing Clean Milk. Pp. 12, pls. 4, fig. 1.  
 175. The Control of Bovine Tuberculosis. Pp. 27.

## OFFICE OF EXPERIMENT STATIONS.

Circ. 100. A Secondary Course in Animal Production. Pp. 56.

<sup>1</sup> Farmers' Institute Lecture No. 1. The Care of Milk. (Syllabus illustrated with 44 lantern slides.) Pp. 12.

## YEARBOOK REPRINTS.

94. Utilization of By-products of the Dairy. Pp. 20. (1897.)

260. Dairying at Home and Abroad. Pp. 10, pls. 6. (1902.)

532. The Eradication of Cattle Tuberculosis in the District of Columbia. Pp. 16. (1910.)

536. The Grading of Cream. Pp. 8. (1910.)

## 2. Miscellaneous.

FARMERS' BULLETINS.<sup>2</sup>

36. Cotton Seed and Its Products. Pp. 16.

135. Sorghum Sirup Manufacture. Pp. 40, figs. 26.

252. Maple Sugar and Sirup. Pp. 36, figs. 9. (North.)

268. Industrial Alcohol: Sources and Manufacture. Pp. 45, figs. 10.

410. Potato Culls as a Source of Industrial Alcohol. Pp. 40, figs. 10.

## YEARBOOK REPRINTS.

282. Flaxseed Production, Commerce, and Manufacture in the United States. Pp. 18. (1902.)

319. The Industry in Oil Seeds. Pp. 16. (1903.)

534. Progress in Saving Forest Waste. Pp. 16, pls. 3. (1910.)

541. The Utilization of Crop Plants in Paper Making. Pp. 16, figs. 3. (1910.)

## V. AGRICULTURAL ENGINEERING.

## 1. Farm Buildings.

FARMERS' BULLETINS.<sup>3</sup>

32 (Rev.). Silos and Silage. Pp. 30, figs. 6.

126. Practical Suggestions for Farm Buildings. Pp. 48, figs. 28.

270. Modern Conveniences for the Farm Home. Pp. 48, figs. 26.

367. Lightning and Lightning Conductors. Pp. 20, figs. 3.

438. Hog Houses. Pp. 29, figs. 21.

475. Ice Houses.

## BUREAU OF ANIMAL INDUSTRY CIRCULARS.

131. Designs for Dairy Buildings. Pp. 26, figs. 32.

136. How to Build a Stave Silo. Pp. 18, figs. 18.

## FOREST SERVICE CIRCULAR.

180. Lumber Saved by Using Odd Lengths. Pp. 5.

OFFICE OF EXPERIMENT STATIONS FARMERS' INSTITUTE LECTURES.<sup>4</sup>

5. Silage and Silo Construction for the South. (Syllabus illustrated with 50 lantern slides.) Pp. 31.

8. Farm Architecture. (Syllabus illustrated with 45 lantern slides.) Pp. 19.

<sup>1</sup> See footnote, p. 10.

<sup>2</sup> See also Bulletins 119 and 124 in the list under Experiment Station Work, p. 22.

<sup>3</sup> See also Bulletins 149, 190, 225, 244, and 317 in the list under Experiment Station Work, pp. 24, 25.

<sup>4</sup> See footnote, p. 10.

## 2. Farm Mechanics.

FARMERS' BULLETINS.<sup>1</sup>

- 150. Clearing New Land. Pp. 24, figs. 7.
- 179. Horseshoing. Pp. 30, figs. 18.
- 235. Preparation of Cement Concrete. Pp. 32, figs. 14.
- 269. Industrial Alcohol: Uses and Statistics. Pp. 29, figs. 10.
- 277. The Use of Alcohol and Gasoline in Farm Engines. Pp. 40, figs. 12.
- 303. Corn-harvesting Machinery. Pp. 32, figs. 20.
- 347. The Repair of Farm Equipment. Pp. 32, figs. 23.
- 387. Preservative Treatment of Farm Timbers. Pp. 19, figs. 5.
- 403. The Construction of Concrete Fence Posts. Pp. 31, figs. 9.
- 474. The Use of Paint on the Farm. Pp. 21, fig. 1.

## BUREAU OF ENTOMOLOGY CIRCULARS.

- 55. Powder-post Injury to Seasoned Wood Products. Pp. 5, fig. 1.
- 134. Damage to Telephone and Telegraph Poles by Wood-boring Insects. Pp. 6, fig. 3.

## FOREST SERVICE CIRCULARS.

- 39. Experiments in the Strength of Treated Timber. Pp. 31, figs. 2.
- 69. Fence-post Trees. Pp. 4.
- 142. Tests of Vehicle and Implement Woods. Pp. 29.

## BUREAU OF PLANT INDUSTRY CIRCULAR.

- 44. Minor Articles of Farm Equipment. Pp. 15.

## OFFICE OF EXPERIMENT STATIONS CIRCULAR.

- 74. Excavating Machinery Used for Digging Ditches and Building Levees. Pp. 40, figs. 16.

## YEARBOOK REPRINTS.

- 457. Hygienic Water Supplies for Farms. Pp. 10, pl. 1, figs. 4. (1907.)
- 518. Comforts and Conveniences in Farmers' Homes. Pp. 11, figs. 6. (1909.)

## 3. Road Improvement.

## FARMERS' BULLETINS.

- 311. Sand-clay and Burnt-clay Roads. Pp. 19, figs. 5.
- 321. The Use of the Split-log Drag on Earth Roads. Pp. 14, figs. 5.
- 338. Macadam Roads. Pp. 39, figs. 10.

## OFFICE OF PUBLIC ROADS CIRCULARS.

- 37. The Railroads and the Wagon Roads. Pp. 4.
- 89. Progress Reports of Experiments with Dust Preventives. Pp. 26.
- 90. Progress Reports of Experiments in Dust Prevention, Road Preservation, and Road Construction. Pp. 23.
- 91. Sand-clay and Earth Roads in the Middle West. Pp. 31, figs. 6.
- 92. Progress Reports of Experiments in Dust Prevention and Road Preservation. Pp. 32.

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<sup>1</sup> See also Bulletins 149, 353, and 381 in the list under Experiment Station Work, pp. 23, 24.



## OFFICE OF EXPERIMENT STATIONS.

- <sup>1</sup> Farmers' Institute Lecture No. 7. Roads and Road Building. (Syllabus illustrated with 41 lantern slides.) Pp. 16.

## YEARBOOK REPRINTS.

149. Steel-track Wagon Roads. Pp. 6, pls. 3, fig. 1. (1898.)  
 240. Road Building with Convict Labor in the Southern States. Pp. 14, pls. 5. (1901.)  
 245. Government Cooperation in Object-lesson Road Work. Pp. 6, pls. 2. (1901.)  
 296. Use of Mineral Oil in Road Improvement. Pp. 16, pls. 3, figs. 4. (1902.)  
 332. Building Sand-clay Roads in Southern States. Pp. 8, pls. 2, figs. 3. (1903.)  
 407. Progress of Road Legislation and Road Improvement in the Different States. Pp. 4. (1905.)  
 412. Object-lesson Roads. Pp. 10, pls. 4. (1906.)  
 448. Dust Preventives. Pp. 10, pls. 4. (1907.)  
 535. Progress and Present Status of the Good Roads Movement. Pp. 12. (1910.)  
 538. Bituminous Dust Preventives and Road Binders. Pp. 12. (1910.)

## 4. Drainage.

## FARMERS' BULLETINS.

187. Drainage of Farm Lands. Pp. 38, figs. 19.  
 371. Drainage of Irrigated Lands. Pp. 52, figs. 19.

## OFFICE OF EXPERIMENT STATIONS.

- Sep. 9, Bulletin 158. Report of Drainage Investigations, 1904. Pp. 100, pls. 4, figs. 52.  
 Circ. 74. Excavating Machinery Used for Digging Ditches and Building Levees. Pp. 40, figs. 16.  
 Doc. 723. Irrigation and Drainage Investigations of the Office of Experiment Stations. Pp. 23, pls. 2, figs. 5.  
 Doc. 1028. Reclamation of Tide Lands. Pp. 24, pls. 5, figs. 6.  
 Doc. 1136. Progress in Drainage (1907). Pp. 18.  
 Doc. 1222. The Alluvial Lands of the Lower Mississippi Valley and Their Drainage. Pp. 10, pls. 2, figs. 2.

## 5. Irrigation.

FARMERS' BULLETINS.<sup>2</sup>

138. Irrigation in Field and Garden. Pp. 40, figs. 18.  
 158. How to Build Small Irrigating Ditches. Pp. 28, figs. 9.  
 263. Practical Information for Beginners in Irrigation. Pp. 40, figs. 25.  
 371. Drainage of Irrigated Lands. Pp. 52, figs. 19.  
 373. Irrigation of Alfalfa. Pp. 48, figs. 32.

## OFFICE OF EXPERIMENT STATIONS DOCUMENTS.

369. The Use of Water in Irrigation. Pp. 82, pls. 25, figs. 13.  
 723. Irrigation and Drainage Investigations of the Office of Experiment Stations. Pp. 23, pls. 2, figs. 5.

<sup>1</sup> See footnote p. 13.

<sup>2</sup> See also Bulletin 317 in the list under Experiment Station Work, p. 24.

## YEARBOOK REPRINTS.

- 393. The Relation of Irrigation to Dry Farming. Pp. 16, pls. 2, figs. 10.
- 458. The Use of Small Water Supplies for Irrigation. Pp. 16, figs. 6.
- 495. Soil Mulches for Checking Evaporation. Pp. 8, figs. 7.
- 514. Methods of Applying Water to Crops. Pp. 16, pl. 1, figs. 10.
- 526. The Agricultural Duty of Water. Pp. 12. (1910.)

## VI. AGRICULTURAL ECONOMICS.

FARMERS' BULLETINS.<sup>1</sup>

- 62. Marketing Farm Produce. Pp. 31, figs. 17.
- 228. Forest Planting and Farm Management. Pp. 22, figs. 3.
- 229. The Production of Good Seed Corn. Pp. 23, figs. 10.
- 242. An Example of Model Farming. Pp. 16, figs. 5.
- 272. A Successful Hog and Seed-corn Farm. Pp. 16, figs. 5.
- 280. A Profitable Tenant Dairy Farm. Pp. 16, figs. 3.
- 294. Farm Practice in the Columbia Basin Uplands. Pp. 30, figs. 9.
- 299. Diversified Farming under the Plantation System. Pp. 14.
- 310. A Successful Alabama Diversification Farm. Pp. 24, figs. 4.
- 312. A Successful Southern Hay Farm. Pp. 15.
- 319. Demonstration Work in Cooperation with Southern Farmers. Pp. 22.
- 325. Small Farms in the Corn Belt. Pp. 29, figs. 3.
- 326. Building Up a Run-down Cotton Plantation. Pp. 22, figs. 9.
- 337. Cropping Systems for New England Dairy Farms. Pp. 24, figs. 2.
- 355. A Successful Poultry and Dairy Farm. Pp. 40, figs. 7.
- 362. Conditions Affecting the Value of Market Hay. Pp. 29, figs. 7.
- 364. A Profitable Cotton Farm. Pp. 23, figs. 12.
- 365. Potato Growing in Northern Sections. Pp. 31, figs. 11.
- 370. Replanning a Farm for Profit. Pp. 36.
- 432. How a City Family Managed a Farm. Pp. 28, figs. 7.
- 437. A System of Tenant Farming and Its Results. Pp. 20.
- 454. A Successful New York Farm. Pp. 32, figs. 9.
- 460. Frames as a Factor in Truck Growing. Pp. 29, figs. 12.
- 462. The Utilization of Logged-off Land for Pastures in Western Oregon and Western Washington. Pp. 20, figs. 5.

## BUREAU OF ANIMAL INDUSTRY CIRCULARS.

- 56. Facts Concerning the History, Commerce, and Manufacture of Butter. Pp. 24.
- 103. Records of Dairy Cows: Their Value and Importance in Economic Milk Production. Pp. 38, figs. 10.
- 140. The Egg Trade of the United States. Pp. 34, figs. 2.
- 178. Breeding Horses for the United States Army. Pp. 13.

## BUREAU OF PLANT INDUSTRY CIRCULARS.

- 25. The Cost of Clearing Logged-off Land for Farming in the Pacific Northwest. Pp. 16, figs. 9.
- 75. Agricultural Survey of Four Townships in Southern New Hampshire. Pp. 19, figs. 3.

## BUREAU OF STATISTICS CIRCULARS.

- 3. The Farmers' Interest in Finance. Pp. 15, figs. 2.
- 17. Government Crop Reports: Their Value, Scope, and Preparation. Pp. 16.

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<sup>1</sup> See also Bulletins 114 and 190 in the list under Experiment Station Work, pp. 22, 23.

## BUREAU OF ENTOMOLOGY CIRCULAR.

129. Insects in Their Relation to the Reduction of Future Supplies of Timber, and General Principles of Control. Pp. 10.

## OFFICE OF THE SECRETARY CIRCULARS.

25. The Unproductive Farm. Pp. 8.  
32. Cotton, the Greatest of Cash Crops. Pp. 10.

## OFFICE OF PUBLIC ROADS CIRCULARS.

27. Cost of Hauling Farm Products to Market or to Shipping Points in European Countries. Pp. 12.  
37. The Railroads and the Wagon Roads. Pp. 4.

## YEARBOOK REPRINTS.

122. Agricultural Production and Prices. Pp. 30. (1897.)  
256. Wheat Ports of the Pacific Coast. Pp. 14, pls. 5. (1901.)  
304. The Nation's Farm Surplus. Pp. 12. (1903.)  
308. Consumption of Cotton in the Cotton States. Pp. 15, pls. 3, fig. 1. (1903.)  
309. The Economic Value of the Bobwhite. Pp. 12, pl. 1. (1903.)  
319. The Industry in Oil Seeds. Pp. 16. (1903.)  
340. Opportunities in Agriculture. Pp. 30, pls. 3. (1904.)  
422. Methods of Reducing the Cost of Producing Beet Sugar. Pp. 14, pls. 2, figs. 2. (1906.)  
430. Freight Costs and Market Values. Pp. 16. (1906.)  
443. Does it Pay the Farmer to Protect Birds? Pp. 14, pls. 4. (1907.)  
447. The Value of Insect Parasitism to the American Farmer. Pp. 20, figs. 24. (1907.)  
456. Cropping System for Stock Farms. Pp. 14. (1907.)  
466. Cutting Timber on the National Forests and Providing for a Future Supply. Pp. 12, pls. 3. (1907.)  
474. The Economic Value of Predaceous Birds and Mammals. Pp. 8, pls. 3. (1908.)  
475. The Wastes of the Farm. Pp. 20. (1908.)  
483. The Causes of Southern Rural Conditions, and the Small Farm as an Important Remedy. Pp. 10. (1908.)  
487. Types of Farming in the United States. Pp. 15. (1908.)  
502. Methods and Costs of Marketing. Pp. 14. (1909.)  
509. Farming as an Occupation for City-bred Men. Pp. 9. (1909.)  
511. The Future Wheat Supply of the United States. Pp. 13, figs. 2. (1909.)  
512. Vegetable-seed Growing as a Business. Pp. 11, pls. 2. (1909.)  
525. The Management of Second Growth Sprout Forests. Pp. 11. (1910.)  
528. Supply and Wages of Farm Labor. Pp. 16. (1910.)  
533. The Game Market of To-day. Pp. 16, figs. 2. (1910.)  
546. Cooperation in the Marketing and Handling of Fruit. Pp. 20. (1910.)  
552. The Effect of the Present Method of Handling Eggs on the Industry and the Product. Pp. 20, pl. 1. (1910.)  
553. Agricultural Statistics. Pp. 212. (1910.)

(Agricultural statistics of crop and animal products are published for each year and may be had on application to the Secretary of Agriculture.)



## VII. GENERAL AND SPECIAL TOPICS.

## FARMERS' BULLETINS.

- 54 (Rev.). Some Common Birds. Pp. 48, figs. 22.
- 59 (Rev.). Bee Keeping. Pp. 47, figs. 19.
- 86. Thirty Poisonous Plants. Pp. 32, figs. 24.
- 127 (Rev.). Important Insecticides. Pp. 45, figs. 6.
- 174. Broom Corn. Pp. 30, figs. 10.
- 183. Meat on the Farm: Butchering, Curing, and Keeping. Pp. 37, figs. 35.
- 188. Weeds Used in Medicine. Pp. 45, figs. 31.
- 194. Alfalfa Seed. Pp. 14, figs. 55.
- 196. Usefulness of the American Toad. Pp. 16.
- 301. Home-grown Tea. Pp. 16, figs. 4.
- 315. Progress in Legume Inoculation. Pp. 20.
- 319. Demonstration Work in Cooperation with Southern Farmers. Pp. 22.
- 328. Silver Fox Farming. Pp. 22, figs. 10.
- 330. Deer Farming in the United States. Pp. 20, figs. 2.
- 369. How to Destroy Rats. Pp. 20, figs. 5.
- 377. Harmfulness of Headache Mixtures. Pp. 16.
- 393. Habit-forming Agents: Their Indiscriminate Sale and Use a Menace to Public Welfare. Pp. 19, figs. 5.

EXPERIMENT STATION WORK.<sup>1</sup>

- 78. Humus in soils—Winter protection of peach trees—Sunflowers—Grape juice and sweet cider, etc. Pp. 32, figs. 2.
- 84. Home-mixed fertilizers—Field selection of seed—Potatoes as food—By-product of the dairy—Gape disease of chickens, etc. Pp. 32, figs. 8.
- 87. Soil moisture and fertility—Cultivating v. cropping orchards—Transplanting trees—Food value of eggs—The toad as the farmer's friend, etc. Pp. 32, figs. 6.
- 92. Sugar beets on alkali soils—Replanting corn—Improved culture of potatoes—Second-crop seed potatoes—Pasteurization of milk for butter making, etc. Pp. 30.
- 105. The tillering of grains—Fertilizers for gardens—Cereal breakfast foods—When to cut alfalfa—Spontaneous combustion of hay, etc. Pp. 32, figs. 4.
- 107. Fertilizer requirements for crops—Cost of raising calves—Feeding tuberculous milk to calves—Killing the germs of tuberculosis in milk—Dairy salt, etc. Pp. 32, figs. 3.
- 114. Influence of salt on soil moisture—Extra early potatoes—Low-grade Paris green—Skim milk in bread making—Profitable and unprofitable cows, etc. Pp. 28, figs. 5.
- 119. Storing apples without ice—Cold storage on the farm—Transplanting muskmelons—Effect of cotton-seed meal on the quality of butter—Protection against Texas fever, etc. Pp. 31, figs. 5.
- 122. Lining grass lands—Nuts as food—A pure-food law—Selling eggs by weight—Unfermented grape juice, etc. Pp. 32, figs. 5.
- 124. Distilled drinking water—Lime as a fertilizer—Weed destruction—Maple sirup and sugar—Type of the dairy cow, etc. Pp. 32, figs. 6.

<sup>1</sup> Experiment Station Work is a subseries of Farmers' Bulletins compiled from the published reports of the agricultural experiment stations and kindred institutions in this and other countries. In sending for bulletins of this series simply ask for Farmers' Bulletins, giving the serial number of the bulletin without specifying the topics treated in it.



133. Value of stable manure—Alfalfa as a fertilizer—Liming acid soils—Frost-resisting strawberries—Ridding houses of flies, etc. Pp. 32, figs. 14.
144. Maintenance of soil fertility—Rotation of crops—Cattle and poultry foods—An improved cow stall, etc. Pp. 32, figs. 9.
149. Culture of potatoes—Shrinkage of farm products—Soils and fertilizers for strawberries—Shelter for dairy cows—Feed mills and windmills, etc. Pp. 32, figs. 6.
186. Losses in manure—Protection of peach buds—Dandelions in lawns—Rations for laying hens—Keeping quality of butter, etc. Pp. 32, figs. 9.
190. Cost of eggs in winter—Profitable and unprofitable cows—Methods of milking—Coating cheese with paraffin—Ventilation of stables, etc. Pp. 32, figs. 14.
210. Hen manure—Varieties and qualities of wheat—Corn breeding—Injuries to shade trees—Oak leaves as forage—The covered milk pail—Fertilizers for potatoes, etc. Pp. 32, figs. 7.
222. Home mixing of fertilizers—Weight per quart of feeding stuffs—Recent horse-feeding tests—Market classes and grades of swine—Silage in place of grain for dairy cows, etc. Pp. 32, fig. 1.
225. Incompatibles in fertilizer mixtures—Value of flint varieties of corn—Buying and judging seed corn—Potato culture—Influence of feed on milk—Protecting cows from flies—A successful brooder house—Prevention of swelling in canned peas, etc. Pp. 32, figs. 6.
233. Root systems of plants—Mushroom culture—Noodles—Condimental feeds—Beef *v.* dairy type for beef production—Feeding calves skim milk—Milk from diseased cows—Cider vinegar, etc. Pp. 32, figs. 5.
237. Lime and clover—Plant-food requirements of fruit trees—Running out of seed wheat—Cereal breakfast foods—Damaged wheat as feed—Bedding for cows—Amateur poultry raising—Care of cream on the farm—Yeast as a disinfectant, etc. Pp. 32, figs. 6.
244. Handling seed corn—Adaptation of seed corn—Effect of root nodules on composition of crops—Cooking quality of potatoes—Methods of feeding poultry—Covered yards for cows, etc. Pp. 32, figs. 6.
251. American sugar-beet seed—Profits from spraying potatoes—Durum wheat—Indoor *v.* outdoor feeding of steers—Cheap dairy rations—Cotton-seed meal for hogs, etc. Pp. 32, fig. 1.
259. Use of commercial fertilizers—Spreading lime—Soil sterilization—Weights per bushel of seeds—Disease-resistant crops—Alfalfa meal as a feeding stuff—Milk fever—Nail wounds in horses' feet—Use of a cheap canning outfit, etc. Pp. 32, figs. 3.
267. Breeding corn—Buckwheat—Grass mulch for orchards—Hardiness of young fruit trees—Protecting cows from flies, etc. Pp. 32, fig. 1.
273. Loss of nitrogen from soils—Manure as affected by feed—Continuous corn culture—Pasturing wheat—Rotting of potatoes in storage—Preserving eggs—Testing individual cows—Cleanliness in the dairy, etc. Pp. 32, figs. 4.
276. Improvement in peach growing—Alfalfa in the Eastern States—Improvement of grass land—Succotash as a soiling crop—Digestibility of fish and poultry—Honey vinegar—The farm woodlot, etc. Pp. 32, figs. 2.
296. Wells and pure water—Pure seed *v.* poor seed—Disease-resistant clover—Eradication of wild mustard—Seedless tomatoes—Hay box or fireless cooker—Insect enemies of shade trees, etc. Pp. 32, figs. 4.
305. Renewal of old orchards—Injury by Bordeaux mixture—Roots for farm animals—Cabbage as a stock feed—Cull beans as a feed for hogs—Healthy poultry, etc. Pp. 32.

309. Ice for household uses—Silage from frosted corn—Cooperation in marketing crops—Causes of death of young chicks—Snow for poultry, etc. Pp. 32.
316. Winterkilling of peach buds—Effect of fertilizers on the color of apples—Potato scab—Cooking cereal foods—Supplements to corn in hog feeding—Hoppers for poultry, etc. Pp. 32, figs. 4.
317. Improving the convenience and comfort of the farm home—Cement pipe for irrigation—Increasing the productiveness of corn—Catching hook for poultry, etc. Pp. 32, figs. 6.
329. Low-grade *v.* high-grade fertilizers—Improvement of sandy soils—Dry farming—Seed selection—Evergreens: Uses and culture—Preparation of miscible oils—Cane sugar and beet sugar, etc. Pp. 32, figs. 4.
334. Plant breeding on the farm—Profits from tomato growing—The keeping of apples—Weed seeds in manure and feeding stuffs—Market classes and grades of horses and mules—Extraction of beeswax, etc. Pp. 32, figs. 2.
342. Conservation of soil resources—Potato breeding—Disk-harrowing alfalfa—The Montreal muskmelon—Storage of Hubbard squash—Preserving wild mushrooms—Cooking beans and other vegetables—A model kitchen, etc. Pp. 32, figs. 3.
353. Commercial clover seed—Growing potatoes under straw—Hens *v.* incubators—Preparing fowls for market—A cheap and efficient sterilizer—A cheap and efficient ice box—The power laundry on the farm, etc. Pp. 32, figs. 14.
360. Distance between corn hills—Street trees—Spraying for weeds—Market classes and grades of sheep—Hulled corn—Mixing fat into dough, etc. Pp. 32, figs. 6.
366. Treatment of muck soils—Corn breeding—Hook-worm disease in cattle—Effect of machine milking on cows—Milk supply of cities—The crow, etc. Pp. 32.
374. Inoculation and lime for alfalfa—Pruning rotundifolia grapes—Native hays of the arid region—Bermuda grass—Short *v.* long feeding of beef cattle—Feeding work horses—Colony houses for poultry—Flour for baking-powder biscuits, etc. Pp. 32, figs. 5.
381. Methods and cost of clearing land—Calf feeding—Gasoline heated colony brooders—Measuring acidity in cheese making and butter making. Pp. 32, figs. 9.
384. Early onions in the Southwest—Oleander poisoning of live stock—Wintering farm work horses—Alfalfa meal as a feeding stuff—Whipped cream—Farm butter making—Cement and concrete fence posts, etc. Pp. 32, figs. 3.
388. Incompatibles in fertilizer mixtures—Principles of dry farming—Methods of seeding oats—Rolling *v.* harrowing winter wheat—Pruning—Bean anthracnose or pod spot—Jelly and jelly making, etc. Pp. 32, figs. 7.
412. Wart disease of the potato—The typhoid or house fly—The forced molting of fowls—Pasteurization in butter making—Milling and baking tests with durum wheat, etc. Pp. 32, figs. 6.
419. Tillage *v.* sod mulch in orchards—Ear characters of seed corn—Seed disinfection—Blackleg of the Irish potato—Progress in horse breeding—Sweet potatoes. Pp. 24, figs. 4.
425. Commercial bean growing—Digestion experiments with range forage crops—Substitutes for oats for horses, etc. Pp. 24, figs. 3.
430. Unusual *v.* standard fertilizers—Symptoms of disease in plants—Condimental feeds—Feeding the dairy calf—Defects in cottage cheese—The Iowa silo. Pp. 24, figs. 14.
435. Water required for crops—Burning lime on the farm—Tomatoes for canning—Lime sulphur as a fungicide—Market classes and grades of meat—Lice on poultry—Neufchatel cheese. Pp. 24, figs. 6.

451. Sterilizing tobacco-plant beds—Clover growing—Curing clover hay—The velvet bean—Draft horses—Care of mares and foals. Pp. 24, figs. 6.  
 457. Low-grade fertilizers—Fighting the boll weevil—Hastening maturity of cotton with fertilizers—Early spring lambs—Production of sanitary milk—Lacto: A frozen dairy product. Pp. 24, fig. 1.

## YEARBOOK REPRINTS.

319. The Industry in Oil Seeds. Pp. 16. (1903.)  
 329. The Relation of Forests to Stream Flow. Pp. 10. (1903.)  
 364. Some Benefits the Farmer May Derive from Game Protection. Pp. 12. (1904.)  
 388. Meadow Mice in Relation to Agriculture and Horticulture. Pp. 14, pls. 4, fig. 1. (1905.)  
 392. Illustrations of the Influence of Experiment Station Work on Culture of Field Crops. Pp. 16, fig. 1. (1905.)  
 443. Does it Pay the Farmer to Protect Birds? Pp. 14, pls. 4. (1907.)  
 447. The Value of Insect Parasitism to the American Farmer. Pp. 20, figs. 24. (1907.)  
 452. The Rabbit as a Farm and Orchard Pest. Pp. 14. (1907.)  
 457. Hygienic Water Supplies for Farms. Pp. 10, pl. 1, figs. 4. (1907.)  
 497. A Directory for Farmers. Pp. 25. (Corrected to 1909.)

(Agricultural statistics of crop and animal products are also published for each year and may be had on application to the Secretary of Agriculture.)

PUBLICATIONS ADAPTED TO TEACHING BOTANY.<sup>1</sup>FARMERS' BULLETINS.<sup>2</sup>

- 28 (Rev.). Weeds, and How to Kill Them. Pp. 30, figs. 11.  
 61. Asparagus Culture. Pp. 40, figs. 17.  
 86. Thirty Poisonous Plants. Pp. 32, figs. 24.  
 91. Potato Diseases and Their Treatment. Pp. 11, figs. 4.  
 139. Emmer: A Grain for Semiarid Regions. Pp. 16, figs. 3.  
 157. The Propagation of Plants. Pp. 24, figs. 22.  
 174. Broom Corn. Pp. 30, figs. 10.  
 188. Weeds Used in Medicine. Pp. 45, figs. 31.  
 194. Alfalfa Seed. Pp. 14, figs. 55.  
 229. The Production of Good Seed Corn. Pp. 23, figs. 10.  
 248. The Lawn. Pp. 20, figs. 5.  
 253. The Germination of Seed Corn. Pp. 16, figs. 4.  
 260. Seed of Red Clover and Its Impurities. Pp. 24, figs. 39.  
 278. Leguminous Crops for Green Manuring. Pp. 27, figs. 14.  
 306. Dodder in Relation to Farm Seeds. Pp. 27, figs. 10.  
 382. The Adulteration of Forage Plant Seeds. Pp. 23, figs. 19.  
 408. School Exercises in Plant Production. Pp. 48, fig. 39.  
 443. Barley: Growing the Crop. Pp. 48, figs. 17.  
 455. Red Clover. Pp. 48, figs. 25.  
 464. The Eradication of Quack-grass. Pp. 11, figs. 6.

## DIVISION OF AGROSTOLOGY CIRCULAR.

31. Bermuda Grass. Pp. 6, figs. 2.

<sup>1</sup> Some of these bulletins are equally important in the study of general agriculture and horticulture. They are listed here because of the emphasis given in them to botanical features. The same principle of classification is followed in the lists under other special titles in the following pages.

<sup>2</sup> See also Bulletins 105, 186, 233, 251, 267, 296, 316, 334, 342, 353, 360, 388, and 412 in the list under Experiment Station Work, pp. 22-24.



## DIVISION OF BOTANY CIRCULARS.

7. Tumbling Mustard. Pp. 8, figs. 3.  
 27 (Rev.). Canada Thistle. Pp. 14, figs. 4  
 30 (Rev.). List of Publications of the Division of Botany. Pp. 10.

## BUREAU OF PLANT INDUSTRY CIRCULARS.

2. An Improved Method of Separating Buckhorn from Red Clover and Alfalfa Seeds. Pp. 12.  
 52. Wart Disease of the Potato. Pp. 11, pls. 2.  
 62. The Separation of Seed Barley by the Specific Gravity Method. Pp. 6, fig. 1.  
 63. Methods of Legume Inoculation. Pp. 5.  
 73. The Distinguishing Characters of the Seeds of Quack-grass and of Certain Wheat grasses. Pp. 9, figs. 7.  
 76. The Relation of Crown-gall to Legume Inoculation. Pp. 6, figs. 4.

## OFFICE OF EXPERIMENT STATIONS.

- Circ. 34 (Rev.). Rules and Apparatus for Seed Testing. Pp. 24, figs. 11.  
 Doc. 584. The Need of Better Courses of Preparation for Work in Applied Botany. Pp. 3.  
<sup>1</sup> Farmers' Institute Lecture No. 2. Potato Diseases and Their Treatment. (Syllabus illustrated with 47 lantern slides.) Pp. 30.

## YEARBOOK REPRINTS.

20. Grasses as Sand and Soil Binders. Pp. 16, figs. 11. (1894.)  
 85. Method of Propagating the Orange and other Citrus Fruits. Pp. 18, figs. 13. (1896.)  
 124. Hybrids and their Utilization in Plant Breeding. Pp. 38, figs. 12, pls. 4. (1897.)  
 157. Pollination of Pomaceous Fruits. Pp. 14, figs. 13. (1898.)  
 203. Commercial Plant Introduction. Pp. 14. (1900.)  
 262. The Contamination of Public Water Supplies by Algæ. Pp. 12, pls. 2. (1902.)  
 319. The Industry in Oil Seeds. Pp. 16. (1903.)  
 446. The Art of Seed Selection and Breeding. Pp. 16, pls. 5. (1907.)  
 530. Nitrogen-gathering Plants. Pp. 8, pls. 8. (1910.)  
 540. Increased Yields of Corn from Hybrid Seed. Pp. 12. (1910.)

## PUBLICATIONS ADAPTED TO TEACHING CHEMISTRY.

FARMERS' BULLETINS.<sup>2</sup>

- 44 (Rev.). Commercial Fertilizers. Pp. 38.  
 77 (Rev.). The Liming of Soils. Pp. 24.  
 88. Alkali Lands. Pp. 23, fig. 1.  
 127 (Rev.). Important Insecticides: Directions for their Preparation and Use. Pp. 45, figs. 6.  
 145. Carbon Bisulphid as an Insecticide. Pp. 28.  
 268. Industrial Alcohol: Sources and Manufacture. Pp. 45, figs. 10.  
 278. Leguminous Crops for Green Manuring. (A Source of Nitrogen in the Soil.) Pp. 27, figs. 14.  
 377. Harmfulness of Headache Mixtures. Pp. 16.  
 410. Potato Culls as a Source of Industrial Alcohol. Pp. 40, figs. 10.  
 269. Industrial Alcohol: Uses and Statistics. Pp. 32, figs. 3.

<sup>1</sup> See footnote, p. 10.

<sup>2</sup> See also Bulletins 84, 92, 105, 107, 124, 186, 222, 225, 237, 273, 329, 381, and 388 in the list under Experiment Station Work, pp. 22-24.



## BUREAU OF CHEMISTRY CIRCULARS.

1. The Manufacture of Sorghum Sirup. Pp. 3.
25. Coloring Matters for Foodstuffs and Methods for their Detection. Pp. 40.
36. Chemical Methods for Utilizing Wood. Pp. 47, figs. 16.
40. Methods for the Analysis of Maple Products, and the Detection of Adulterants, Together with the Interpretation of the Results Obtained. Pp. 13.
41. Paper-making Materials and their Conservation. Pp. 23.
56. The Determination of Total Sulphur in Organic Matter. Pp. 9.
58. The Effect of Alcohol on Invertase. Pp. 8, figs. 2.
62. A Comparison of Beef and Yeast Extracts of Known Origin. Pp. 7.
66. Extracts from the Proceedings of the Association of Official Agricultural Chemists, 1910. Pp. 27.
67. A Method for the Determination of Tin in Canned Foods. Pp. 9.
68. Tomato Ketchup Under the Microscope; with Practical Suggestions to Insure a Cleanly Product. Pp. 14.

## BUREAU OF ENTOMOLOGY CIRCULARS.

- 37 (Rev.). The Use of Hydrocyanic-acid Gas for Fumigating Greenhouses and Cold Frames. Pp. 10, figs. 3.
- 46 (Rev.). Hydrocyanic-acid Gas Against Household Insects. Pp. 7.

## OFFICE OF EXPERIMENT STATIONS.

- Doc. 428. Recent Results with Hydrocyanic-acid Gas for the Destruction of Insects in Large Buildings. Pp. 5.
- <sup>1</sup> Farmers' Institute Lecture No. 3. Acid Soils. (Syllabus illustrated with 53 lantern slides.) Pp. 28.

## YEARBOOK REPRINTS.

411. The Present Status of the Nitrogen Problem. Pp. 11. (1906.)
529. Inspection of Imported Food and Drug Products. Pp. 16. (1910.)

## PUBLICATIONS ADAPTED TO TEACHING DOMESTIC SCIENCE AND HYGIENE.

FARMERS' BULLETINS.<sup>2</sup>

34. Meats: Composition and Cooking. Pp. 31, figs. 4.
- 85 (Rev.). Fish as Food. Pp. 32.
93. Sugar as Food. Pp. 26.
- 121 (Rev.). Beans, Peas, and other Legumes as Food. Pp. 38, figs. 10.
- 128 (Rev.). Eggs and their Uses as Food. Pp. 31.
131. Household Tests for the Detection of Oleomargarine and Renovated Butter. Pp. 10.
- 142 (Rev.). The Nutritive and Economic Value of Food. Pp. 48, charts 2.
155. How Insects Affect Health in Rural Districts. Pp. 19, figs. 16.
166. Cheese Making on the Farm. Pp. 16, figs. 3.
175. Home Manufacture and Use of Unfermented Grape Juice. Pp. 16, figs. 8.
182. Poultry as Food. Pp. 40.
183. Meat on the Farm: Butchering, Curing, and Keeping. Pp. 37, figs. 35.
188. Weeds Used in Medicine. Pp. 45, figs. 31.
203. Canned Fruit, Preserves, and Jellies. Pp. 32, figs. 5.
234. The Guinea Fowl and its Use as Food. Pp. 24, figs. 3.
241. Butter Making on the Farm. Pp. 32.

<sup>1</sup> See footnote, p. 10.

<sup>2</sup> See also many bulletins relating to this subject in the list under Experiment Station Work, p. 22.

- 249. Cereal Breakfast Foods. Pp. 36.
- 256. Preparation of Vegetables for the Table. Pp. 48.
- 270. Modern Conveniences for the Farm Home. Pp. 48, figs. 26.
- 291. Evaporation of Apples. Pp. 38, figs. 16.
- 293. Use of Fruit as Food. Pp. 38, fig. 1.
- 295. Potatoes and Other Root Crops as Food. Pp. 45, figs. 4.
- 298. Food Value of Corn and Corn Products. Pp. 40, figs. 2.
- 332. Nuts and Their Uses as Food. Pp. 28, fig. 1.
- 345. Some Common Disinfectants. Pp. 12.
- 348. Bacteria Milk. Pp. 21, figs. 6.
- 359. Canning Vegetables in the Home. Pp. 16, figs. 9.
- 363. The Use of Milk as Food. Pp. 44, charts 4.
- 375. Care of Food in the Home. Pp. 46, figs. 2.
- 377. Harmfulness of Headache Mixtures. Pp. 16.
- 389. Bread and Bread Making. Pp. 47, figs. 7.
- 391. Economical Use of Meat in the Home. Pp. 43.
- 393. Habit-forming Agents: Their Indiscriminate Sale and Use a Menace to the Public Welfare. Pp. 19, figs. 5.
- 413. The Care of Milk and Its Use in the Home. Pp. 20.
- 426. Canning Peaches on the Farm. Pp. 26, figs. 14.
- 444. Remedies and Preventives Against Mosquitoes. Pp. 15.
- 450. Some Facts about Malaria. Pp. 13, figs. 6.
- 459. House Flies. Pp. 16, figs. 9.
- 463. The Sanitary Privy. Pp. 32, figs. 9.
- 473. Tuberculosis. Pp. 23, figs. 13.
- 478. How to Prevent Typhoid Fever. Pp. 8.

#### BUREAU OF ANIMAL INDUSTRY CIRCULARS.

- 1 (Rev.). Directions for the Pasteurization of Milk. P. 1.
- 56. Facts Concerning the History, Commerce, and Manufacture of Butter. Pp. 24.
- 74 (Rev.). United States and State Standards for Dairy Products, 1909. Pp. 2.
- 101. The New Meat-inspection Law and Its Bearing upon the Production and Handling of Meats. Pp. 16.
- 108. Trichinosis: A Danger in the Use of Raw Pork for Food. Pp. 6, figs. 5.
- 125. The Federal Meat Inspection Service. Pp. 40, pls. 15, fig. 1.
- 127. Tubercle Bacilli in Butter: Their Occurrence, Vitality, and Significance. Pp. 23.
- 142. Some Important Factors in the Production of Sanitary Milk. Pp. 18, figs. 12.
- 143. Milk and its Products as Carriers of Tuberculosis Infection. Pp. 16.
- 152. Directions for the Home Pasteurization of Milk. Pp. 2.
- 153. The Dissemination of Disease by Dairy Products and Methods for its Prevention. Pp. 57, figs. 11.
- 154. The Need of State and Municipal Meat Inspection to Supplement Federal Inspection. Pp. 14, figs. 6.
- 161. Whey Butter. Pp. 7.
- 166. The Digestibility of Cheese. Pp. 22.
- 170. The Extra Cost of Producing Clean Milk. Pp. 12, pls. 4, figs. 3.

#### BUREAU OF PLANT INDUSTRY CIRCULAR.

- 74. The Sulphur Bleaching of Commercial Oats and Barley Pp. 13, figs. 4.

#### BUREAU OF CHEMISTRY CIRCULARS.

- 15. Results of Borax Experiment. Pp. 27.
- 16. (Rev.). Officials Charged with the Enforcement of Food Laws in the United States and Canada. Pp. 36.

- 25. Coloring Matters for Foodstuffs and Methods for Their Detection. Pp. 40.
- 31. General Results of the Investigation Showing the Effect of Salicylic Acid and Salicylates upon Digestion and Health. Pp. 12, fig. 1.
- 37. General Results of the Investigations Showing the Effect of Sulphurous Acid and Sulphites upon Digestion and Health. Pp. 18, fig. 1.
- 42. General Results of the Investigations Showing the Effect of Formaldehyde upon Digestion and Health. Pp. 16.
- 62. A Comparison of Beef and Yeast Extracts of Known Origin. Pp. 7.
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- 68. Tomato Ketchup Under the Microscope; with Practical Suggestions to Insure a Cleanly Product. Pp. 14.
- 51. The Value of Peaches as Vinegar Stock. Pp. 7.
- 54. Analysis of Canned Peas and Beans, Showing Composition of Different Grades. Pp. 9.
- 57. Experiments on the Preparation of Sugared Dried Pineapples. Pp. 8, fig. 1.
- 61. How to Kill and Bleed Market Poultry. Pp. 15, figs. 5.

## BUREAU OF ENTOMOLOGY CIRCULARS.

- 5 (Rev.). The Carpet Beetle, or "Buffalo Moth." Pp. 4, fig. 1.
- 34 (Rev.). House Ants. Pp. 4, figs. 3.
- 36 (Rev.). The True Clothes Moths. Pp. 8, figs. 3.
- 36 (Rev.). Hydrocyanic-acid Gas Against Household Insects. Pp. 7.
- 47 (Rev.). The Bedbug. Pp. 8, figs. 3.
- 51 (Rev.). Cockroaches. Pp. 14, figs. 5.
- 71 (Rev.). House Flies. Pp. 9, figs. 10.
- 77. Harvest Mites, or "Chiggers." Pp. 6, figs. 3.
- 108. House Fleas. Pp. 4, figs. 2.
- 118. A Predaceous Mite Proves Noxious to Man. Pp. 24, figs. 13.

## OFFICE OF THE SECRETARY CIRCULARS.

- 21 (3. Rev.). Rules and Regulations for the Enforcement of the Food and Drugs Act. Pp. 20.
- 110. Food Customs and Diet in American Homes. Pp. 32.

## OFFICE OF EXPERIMENT STATIONS CIRCULAR.

- 46. The Functions and Uses of Food. Pp. 11.

## OFFICE OF EXPERIMENT STATIONS DOCUMENTS.

- 566. Dietary Studies of Groups, Especially in Public Institutions. Pp. 30.
- 713. Investigations on the Nutrition of Man in the United States. Pp. 20, pls. 6.
- 1027. The Nutrition Investigations of the Office of Experiment Stations and Their Results. Pp. 14.
- 1056. The Economic Seaweeds of Hawaii and Their Food Value. Pp. 28, pls. 4.

OFFICE OF EXPERIMENT STATIONS FARMERS' INSTITUTE LECTURES.<sup>1</sup>

- 1. The Care of Milk. (Syllabus illustrated with 44 lantern slides.) Pp. 12.
- 10. Production and Marketing of Eggs and Fowls. (Syllabus illustrated with 44 lantern slides.) Pp. 20.

## YEARBOOK REPRINTS.

- 94. Utilization of By-products of the Dairy. Pp. 20. (1897.)
- 221. The Use and Abuse of Food Preservatives. Pp. 10. (1900.)
- 262. The Contamination of Public Water Supplies by Algæ. Pp. 12, pls. 2. (1902.)
- 280. The Cost of Food as Related to Its Nutritive Value. Pp. 20. (1902.)

<sup>1</sup> See footnote, p. 10.



324. Wheat Flour and Bread. Pp. 16. (1903.)  
 326. Macaroni Wheat. Pp. 8. (1903.)  
 339. Inspection of Foreign Food Products. Pp. 7. (1904.)  
 454. Food and Diet in the United States. Pp. 18. (1907.)  
 455. The Use of the Microscope in the Detection of Food Adulteration. Pp. 6, pls. 4. (1907.)  
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 518. Comforts and Conveniences in Farmers' Homes. Pp. 11, figs. 6. (1909.)  
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 536. The Grading of Cream. Pp. 8. (1910.)  
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 544. The Value of the Shellfish Industry and the Protection of Oysters from Sewage Contamination. Pp. 12, pls. 2. (1910.)

### **PUBLICATIONS ADAPTED TO TEACHING GEOGRAPHY.**

#### **FARMERS' BULLETINS.**

- 52 (Rev.). The Sugar Beet. Pp. 48, figs. 24.  
 62. Marketing Farm Produce. Pp. 31, figs. 17.  
 83. Tobacco Soils. Pp. 23, fig. 1.  
 110. Rice Culture in the United States. Pp. 28.  
 140. Pineapple Growing. Pp. 48, figs. 4.  
 174. Broom Corn. Pp. 30, figs. 10.  
 274. Flax Culture. Pp. 36, figs. 11.  
 335. Harmful and Beneficial Mammals of the Arid Interior. Pp. 31, figs. 9.  
 372. Soy Beans. Pp. 26, figs. 6.  
 427. Barley Culture in the Southern States. Pp. 16, figs. 6.  
 436. Winter Oats for the South. Pp. 32, figs. 9.

#### **BUREAU OF PLANT INDUSTRY.**

- Circ. 55. American Export Corn in Europe. Pp. 42, figs. 7.  
 57. The Cultivation of Hemp in the United States. Pp. 7, fig. 1.  
 60. Suggestions to Settlers on the Sandy Soils of the Columbia River Valley. Pp. 23,  
 Doc. 457. Agricultural Conditions in Southern Texas. Pp. 8.  
 figs. 2.

#### **BUREAU OF ANIMAL INDUSTRY CIRCULARS.**

17. Exports of Animals and Their Products. Pp. 3.  
 37. Preliminary Report on Argentina as a Market for Pure-bred Cattle from the United States. Pp. 4.

#### **BUREAU OF ANIMAL INDUSTRY ORDERS.**

61. Concerning the Exportation of Cattle and Sheep in Vessels Carrying Hides from Foreign Countries. P. 1.  
 92. Special Order Prohibiting the Landing of Animals from the Philippine Islands at any of the Ports of the United States or of the Dependencies thereof. P. 1.  
 139. Regulations Governing the Inspection, Humane Handling, and Safe Transport of Animals Carried by Ocean Steamers from the United States to Foreign Countries. Pp. 18.  
 155. To Prevent the Spread of Foot-and-mouth Disease in Cattle, Sheep, Swine, and Goats, Rule 6. Pp. 2.



## BUREAU OF BIOLOGICAL SURVEY CIRCULARS.

30. Wild Animals and Birds Which may be Imported without Permits. P. 1.  
 77. Annual Report of the Governor of Alaska on the Alaska Game Law, 1910. Pp. 7.

## DIVISION OF BOTANY CIRCULAR.

28. Rubber Cultivation for Porto Rico. Pp. 12.

## BUREAU OF ENTOMOLOGY CIRCULARS.

41. Regulations of Foreign Governments Regarding Importation of American Plants, Trees, and Fruits. Pp. 4.  
 75 (Rev.). Requirements to be Complied with by Nurserymen and Others Who Make Interstate Shipments of Nursery Stock. Pp. 9.

## FOREST SERVICE CIRCULARS.

Descriptive of the trees native to the various States. (Send names of trees for which descriptions are desired. The statistics of forest products of the United States can also be had each year.)

44. Wood Used for Pulp in 1905. Pp. 11.  
 49. Timber Used in the Mines of the United States in 1905. Pp. 8.  
 52. The Lumber Cut of the United States in 1905. Pp. 23.  
 53. Wood Used for Tight Cooperage Stock in 1905. Pp. 8.  
 (Also No. 125 for similar statistics of 1906.)  
 97. The Timber Supply of the United States. Pp. 16, figs. 2.  
 102. Production of Red Cedar for Pencil Wood. Pp. 19.  
 113. Use of Dead Timber in the National Forests. Pp. 4.  
 114. Wood Distillation. Pp. 8.  
 119. Consumption of Tanbark and Tanning Extract in 1906. Pp. 9.  
 129. The Drain upon the Forests. Pp. 16, figs. 8.  
 140. What Forestry Has Done. Pp. 32.  
 155. Production and Consumption of Basket Willows in the United States for 1906 and 1907. Pp. 14.  
 163. Paper Birch in the Northeast. Pp. 37, figs. 2.  
 171. The Forests of the United States: Their Use. Pp. 25.  
 176. Surface Conditions and Stream Flow. Pp. 16.

## BUREAU OF SOILS SEPARATES.

Maps of Soil Surveys in the various States. (Send for those desired for the State studied.)

## OFFICE OF PUBLIC ROADS CIRCULAR.

38. A Study of Rock Decomposition Under the Action of Water. Pp. 10.

## OFFICE OF THE SECRETARY CIRCULAR.

32. Cotton, the Greatest of Cash Crops. Pp. 10.

## YEARBOOK REPRINTS.

112. Trees of the United States Important in Forestry. Pp. 26. (1897.)  
 132. Danger of Introducing Noxious Animals and Birds. Pp. 22, pl. 1, figs. 2. (1898.)  
 151. Agriculture in Porto Rico. Pp. 10, pl. 1. (1898.)  
 196. Smyrna Fig Culture in the United States. Pp. 27, pls. 8, figs. 7. (1900.)  
 203. Commercial Plant Introduction. Pp. 14. (1900.)  
 210. Mountain Roads. Pp. 16, pls. 3. (1900.)

253. Mountain Roads as a Source of Revenue. Pp. 14, pls. 7. (1901.)  
 256. Wheat Ports of the Pacific Coast. Pp. 14, pls. 5. (1901.)  
 281. Grape, Raisin, and Wine Production in the United States. Pp. 14, pls. 8. (1902.)  
 282. Flaxseed Production, Commerce, and Manufacture in the United States. Pp. 18. (1902.)  
 283, 330, 399, 450, 496, 521, and 549. Promising New Fruits. (Illustrated with colored plates; for years 1902, 1903, 1905, 1907, 1908, 1909, and 1910.)  
 313. The U. S. Department of Agriculture and Silk Culture. Pp. 12. (1903.)  
 317. Relation of Cold Storage to Commercial Apple Orcharding. Pp. 14, pls. 6. (1903.)  
 319. The Industry in Oil Seeds. Pp. 16. (1903.)  
 329. The Relation of Forests to Stream Flow. Pp. 10. (1903.)  
 339. Inspection of Foreign Food Products. Pp. 7. (1904.)  
 354. Some Uses of the Grapevine and Its Fruit. Pp. 17, pls. 6, figs. 5. (1904.)  
 361. Cotton Culture in Guatemala. Pp. 14, pls. 3, fig. 1. (1904.)  
 387. The Handling of Fruit for Transportation. Pp. 14, pls. 4. (1905.)  
 453. The Status of the American Lemon Industry. Pp. 18, pls. 5, figs. 2. (1907.)  
 459. Truck Farming in the Atlantic Seacoast States. Pp. 10, pls. 3. (1907.)  
 462. The Game Resources of Alaska. Pp. 14, pls. 2, figs. 3. (1907.)  
 (Agricultural statistics of the United States may be had each year as Year-book reprints, on application.)  
 533. The Game Market of To-day. Pp. 16, figs. 2. (1910.)  
 534. Progress in Saving Forest Waste. Pp. 16, pls. 3. (1910.)  
 541. The Utilization of Crop Plants in Paper Making. Pp. 16, figs. 3. (1910.)  
 544. The Value of the Shellfish Industry and the Protection of Oysters from Sewage Contamination. Pp. 12, pl. 2. (1910.)  
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 551. Camphor Cultivation in the United States. Pp. 16, pls. 3. (1910.)

### **PUBLICATIONS ADAPTED TO TEACHING PHYSICS.**

#### **FARMERS' BULLETINS.<sup>1</sup>**

104. Notes on Frost. Pp. 23.  
 138. Irrigation in Field and Garden. Pp. 40, figs. 18.  
 150. Clearing New Land. Pp. 24, figs. 7.  
 239. The Corrosion of Fence Wire. Pp. 32.  
 245. Renovation of Worn-out Soils. Pp. 16.  
 266. Management of Soils to Conserve Moisture. Pp. 30, figs. 7.  
 277. The Use of Alcohol and Gasoline in Farm Engines. Pp. 40, figs. 12.  
 367. Lightning and Lightning Conductors. Pp. 20, figs. 3.

#### **BUREAU OF PLANT INDUSTRY CIRCULAR.**

62. The Separation of Seed Barley by the Specific Gravity Method. Pp. 6, fig. 1.

#### **BUREAU OF SOILS CIRCULAR.**

13. The Work of the Bureau of Soils. Pp. 13.

#### **OFFICE OF PUBLIC ROADS CIRCULAR.**

38. A Study of Rock Decomposition under the Action of Water. Pp. 10.

<sup>1</sup> See also Bulletins 119 and 124 under Experiment Station Work, p. 22.

## YEARBOOK REPRINTS.

411. The Present Status of the Nitrogen Problem. (Fixation of Nitrogen from Air by the Electric Method.) Pp. 11.  
 492. Instruments for Making Weather Observations on the Farm. Pp. 10, pl. 1, figs. 2.  
 547. Mountain Snowfall Observations and Evaporation Investigations in the United States. Pp. 12, fig. 1. (1910.)  
 550. The Precooling of Fruit. Pp. 16, pls. 5. (1910.)

## PUBLICATIONS ADAPTED TO TEACHING PHYSIOLOGY.

FARMERS' BULLETINS.<sup>1</sup>

34. Meats: Composition and Cooking. Pp. 31, figs. 4.  
 85. (Rev.). Fish as Food. Pp. 32.  
 86. Thirty Poisonous Plants. Pp. 32, figs. 24.  
 93. Sugar as Food. Pp. 26.  
 121. (Rev.). Beans, Peas, and other Legumes as Food. Pp. 38, figs. 10.  
 142. (Rev.). The Nutritive and Economic Value of Food. Pp. 48, charts 2.  
 155. How Insects Affect Health in Rural Districts. Pp. 19, figs. 16.  
 182. Poultry as Food. Pp. 40.  
 188. Weeds Used in Medicine. Pp. 45, figs. 31.  
 249. Cereal Breakfast Foods. Pp. 36.  
 293. Use of Fruit as Food. Pp. 38, fig. 1.  
 295. Potatoes and other Root Crops as Food. Pp. 45, figs. 4.  
 298. Food Value of Corn and Corn Products. Pp. 40, figs. 2.  
 332. Nuts and Their Uses as Food. Pp. 28, fig. 1.  
 363. The Use of Milk as Food. Pp. 44, charts 4.  
 377. Harmfulness of Headache Mixtures. Pp. 16.  
 393. Habit-forming Agents: Their Indiscriminate Sale and Use a Menace to the Public Welfare. Pp. 19, figs. 5.  
 413. The Care of Milk and Its Use in the Home. Pp. 20.

## BUREAU OF CHEMISTRY CIRCULARS.

- 15, 16, 31, 37. (See titles of these in the list under Hygiene and Domestic Science, p. 24.)

## OFFICE OF EXPERIMENT STATIONS CIRCULAR.

46. The Functions and Uses of Food. Pp. 11.

## YEARBOOK REPRINTS.

- 454, 457. (See titles of these in the list under Hygiene and Domestic Science, p. 28.)

## PUBLICATIONS ADAPTED TO TEACHING ZOOLOGY (INCLUDING ENTOMOLOGY).

FARMERS' BULLETINS.<sup>2</sup>

47. Insects Affecting the Cotton Plant. Pp. 32, figs. 18.  
 51 (Rev.). Standard Varieties of Chickens. Pp. 48, figs. 42.  
 54 (Rev.). Some Common Birds in Their Relation to Agriculture. Pp. 48, figs. 22.  
 59 (Rev.). Bee Keeping. Pp. 47, figs. 19.  
 64 (Rev.). Ducks and Geese. Pp. 55, figs. 37.  
 106. Breeds of Dairy Cattle. Pp. 48, figs. 21.

<sup>1</sup>See additional bulletins in the list given for Domestic Science and Hygiene, p. 27.

<sup>2</sup>See also Bulletins 87, 133, 225, 267, and 296 in the list under Experiment Station Work, pp. 22, 23.



- 120. Insects Affecting Tobacco. Pp. 32, figs. 25.
- 132. Insect Enemies of Growing Wheat. Pp. 38, figs. 25.
- 165. Silkworm Culture. Pp. 32, figs. 15.
- 172. Scale Insects and Mites on Citrus Trees. Pp. 43, figs. 34.
- 196. Usefulness of the American Toad. Pp. 16.
- 200. Turkeys. Pp. 40, figs. 12.
- 223. Miscellaneous Cotton Insects in Texas. Pp. 23, figs. 29.
- 264. The Brown-tail Moth and How to Control It. Pp. 22, figs. 10.
- 275. The Gipsy Moth and How to Control It. Pp. 22, figs. 7.
- 290. The Cotton Bollworm. Pp. 32, figs. 4.
- 330. Deer Farming in the United States. Pp. 20, figs. 2.
- 335. Harmful and Beneficial Mammals of the Arid Interior. Pp. 31, figs. 9.
- 369. How to Destroy Rats. Pp. 20, figs. 5.
- 383. How to Destroy English Sparrows. Pp. 11, figs. 4.
- 390. Pheasant Raising in the United States. Pp. 40, figs. 17.
- 396. The Muskrat. Pp. 38, figs. 5.
- 397. Bees. Pp. 44, figs. 21.
- 442. The Treatment of Bee Diseases. Pp. 22, figs. 7.
- 450. Some Facts About Malaria. Pp. 13, figs. 6.
- 453. Danger of General Spread of the Gipsy and Brown-tail Moths Through Imported Nursery Stock. Pp. 22, figs. 7.
- 456. Our Grosbeaks and Their Value to Agriculture. Pp. 14, figs. 3.
- 459. House Flies. Pp. 16, figs. 9.

#### BUREAU OF BIOLOGICAL SURVEY CIRCULARS.

- 32 (Rev.). Directions for the Destruction of Prairie Dogs. Pp. 3, fig. 1.
- 56. Value of Swallows as Insect Destroyers. Pp. 4.
- 57. Birds Useful in the War Against the Cotton-boll Weevil. Pp. 4.
- 61. Hawks and Owls from the Standpoint of the Farmer. Pp. 18.
- 63. Destruction of Wolves and Coyotes. Pp. 11, fig. 1.
- 64. Destruction of the Cotton-boll Weevil by Birds in Winter. Pp. 5, fig. 1.
- 76. The California Ground Squirrel. Pp. 15, figs. 4.
- 79. Our Vanishing Shorebirds. Pp. 9, figs. 3.

#### BUREAU OF ENTOMOLOGY CIRCULARS.

- 4 (2. Ser.). The Army Worm. Pp. 5, figs. 3.
- 11 (Rev.). The Rose-chaffer. Pp. 4, fig. 1.
- 19. The Clover Mite. Pp. 4, fig. 1.
- 29 (Rev.). The Fruit-tree Bark-beetle. Pp. 8, figs. 5.
- 32. The Larger Apple-tree Borers. Pp. 11, figs. 3.
- 34 (Rev.). House Ants. Pp. 4, figs. 3.
- 36 (Rev.). The True Clothes Moths. Pp. 8, figs. 3.
- 38 (2. Rev.). The Squash-vine Borer. Pp. 6, figs. 2.
- 39. The Common Squash Bug. Pp. 6, figs. 2.
- 47 (Rev.). The Bedbug. Pp. 8, figs. 3.
- 48. The House Centipede. Pp. 4, figs. 2.
- 51 (Rev.). Cockroaches. Pp. 14, figs. 5.
- 54. The Peach-tree Borer. Pp. 6, fig. 1.
- 55. Powder-post Injury to Seasoned Wood Products. Pp. 5, fig. 1.
- 57. The Greenhouse White Fly. Pp. 9, fig. 1.
- 59. The Corn Root-worms. Pp. 8, figs. 3.
- 60. The Imported Cabbage Worm. Pp. 8, figs. 6.



- 62 (Rev.). The Cabbage Hair-worm. Pp. 6, fig. 1.  
 64. The Cottony Maple Scale. Pp. 6, figs. 4.  
 66. The Joint-worm (Affecting Grain Crops). Pp. 5, figs. 5.  
 67. Clover Root-borer. Pp. 5.  
 69. Some Insects Affecting the Production of Red Clover Seed. Pp. 9, figs. 8.  
 70. The Hessian Fly. Pp. 16, figs. 16.  
 71 (Rev.). House Flies. Pp. 9, figs. 10.  
 73. The Plum Curculio. Pp. 10, figs. 5.  
 76 (Rev.). List of Publications of the Bureau of Entomology. Pp. 21.  
 77. Harvest Mites, or "Chiggers." Pp. 6, figs. 3.  
 87. The Colorado Potato Beetle. Pp. 15, figs. 6.  
 99. The Nut Weevil. Pp. 15, figs. 14.  
 102. The Asparagus Beetles. Pp. 12, figs. 6.  
 104. The Common Red Spider. Pp. 11, figs. 4.  
 105. The Rose Slugs. Pp. 12, figs. 5.  
 108. House Fleas. Pp. 4, figs. 2.  
 113. The Chinch Bug. Pp. 27, figs. 8.  
 115. The Horn Fly. Pp. 13, figs. 6.  
 118. A Predaceous Mite Proves Noxious to Man. Pp. 24, figs. 13.  
 123. Methods of Controlling Tobacco Insects. Pp. 17, figs. 11.  
 125. Insects Which Kill Forest Trees. Pp. 9.  
 130. The Oak Pruner. Pp. 7, fig. 1.  
 133. The Alfalfa Caterpillar. Pp. 14, figs. 8.  
 134. Damage to Telephone and Telegraph Poles by Wood-boring Insects. Pp. 6, figs. 3.  
 135. The Asparagus Miner. Pp. 5, figs. 2.  
 137. The Alfalfa Weevil. Pp. 9, figs. 10.  
 140. An Annotated Bibliography of the Mexican Cotton-boll Weevil. Pp. 30.

## BUREAU OF ANIMAL INDUSTRY CIRCULARS.

159. Some Important Facts in the Life History of the Gid Parasite and Their Bearing on the Prevention of the Disease. Pp. 7.  
 165. Methods for the Eradication of Gid. Pp. 29, figs. 14.

## YEARBOOK REPRINTS.

- 37, part 2. The Meadow Lark and Baltimore Oriole. Pp. 12, figs. 2. (1895.)  
 66. The Blue Jay and Its Food. Pp. 10, figs. 3. (1896.)  
 132. Danger of Introducing Noxious Animals and Birds. Pp. 22, pl. 1, figs. 2. (1898.)  
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 268. Some of the Principal Insect Enemies of Coniferous Forests in the United States. Pp. 18, pls. 2, figs. 10. (1902.)  
 309. The Economic Value of the Bobwhite.  
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 386. The Principal Insect Enemies of the Peach. Pp. 24, pls. 7, figs. 7. (1905.)  
 388. Meadow Mice in Relation to Agriculture and Horticulture. Pp. 14, pls. 4, fig. 1. (1905.)

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447. The Value of Insect Parasitism to the American Farmer. Pp. 20, figs. 24. (1907.)
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474. The Economic Value of Predaceous Birds and Mammals.
486. The Relations Between Birds and Insects. Pp. 8. (1908.)
504. Plants Useful to Attract Birds and Protect Fruit. Pp. 12. (1909.)
506. Pocket Gophers as Enemies of Trees. Pp. 10, pls. 3. (1909.)
531. Some of the More Important Ticks of the United States. Pp. 16, pls. 2. (1910.)
533. The Game Market of To-day. Pp. 16, figs. 2. (1910.)
537. Insect Enemies of Tobacco in the United States. Pp. 20, pl. 1, figs. 13. (1910.)
542. Injuries to Forests and Forest Products by Round-headed Borers. Pp. 20, figs. 12. (1910.)
544. The Value of the Shellfish Industry and the Protection of Oysters from Sewage Contamination. Pp. 12, pls. 2. (1910.)
545. The Migratory Movement of Birds in Relation to the Weather. Pp. 12, fig. 1. (1910.)

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#### OTHER LISTS OF DEPARTMENT OF AGRICULTURE PUBLICATIONS.

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*These will be sent free upon application to the Secretary of Agriculture.*

- Publications of the Bureau of Chemistry. (Circular 7, Division of Publications.)
- Publications of the Bureau of Biological Survey. (Circular 8, Division of Publications.)
- Publications, Office of the Secretary, Office of the Solicitor, and the Division of Publications. (Circular 9, Division of Publications.)
- Publications of the Office of Public Roads. (Circular 10, Division of Publications.)
- Publications of the Forest Service. (Circular 11, Division of Publications.)
- Publications of the Bureau of Statistics. (Circular 12, Division of Publications.)
- Publications of the Bureau of Plant Industry. (Circular 13, Division of Publications.)
- Publications of the Bureau of Soils. (Circular 14, Division of Publications.)
- Publications of the Bureau of Animal Industry. (Circular 15, Division of Publications.)
- Publications of the Bureau of Entomology. (Circular 16, Division of Publications.)
- Publications of the Office of Experiment Stations. (Circular 17, Division of Publications.)
- Publications of the Library. (Circular 18, Division of Publications.)
- Farmers' Bulletin List. (Document 723, Division of Publications.)
- Monthly List of [Department] Publications. See page 2.
- List of Station Publications Received by the Office of Experiment Stations.

[Cir. 19]













